

IEOM

11th Annual International Conference on
Industrial Engineering and Operations Management

Singapore



Host University

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SINGAPORE UNIVERSITY
OF SOCIAL SCIENCES

Organizer

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March 7 - 11, 2021



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Industrial Engineering and Operations Management Society International

IEOM Society International, 21415 Civic Center Dr., Suite 217, Southfield, Michigan 48076, USA

Phone: 1-248-450-5660, Email: info@ieomsociety.org

Welcome to the 11th Annual International Conference on Industrial Engineering and Operations Management, Singapore

To All Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 11th Annual **International Conference on Industrial Engineering and Operations Management**, March 7-11, 2021. This unique international conference provides a forum for academics, researchers and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 1,000 papers/abstracts submitted from 60 countries, and after a thorough peer review process, more than 700 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management. The theme of the conference is "**Operational Excellence in the era of Industry 4.0**".

This conference will address many of the issues concerning continuous improvement for quality and service. Our keynote speakers will address some of these issues:

Professor Cheong Hee Kiat, President, Singapore University of Social Sciences
Dr. Mario Farnoli, Technical Director, Italian Ministry of Agriculture and Contract Professor at Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Italy
Dr. Hamid R. Parsaei, Professor, Dept. of Industrial and Systems Engineering, Texas A&M University, College Station, Texas, USA
Alex Teo, Vice President & Managing Director – South East Asia, Siemens Digital Industries Software, Singapore
Dr. Chung Piau TEO, Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA), NUS Business School, National University of Singapore
Dr. Benny Tjahjono, Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster, Centre for Business in Society, Coventry University, UK
Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China
Dr. Victoria Jordan, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA
Dr. Koh Niak Wu, CEO and CTO, Cosmigo International, Singapore
Dr. Ir. Wahyudi Sutopo, Professor, Dept. of Industrial Engineering and Vice Dean, Universitas Sebelas Maret, Surakarta, Indonesia
Dr. Ruth Banomyong, Professor and Dean, Thammasat Business School, Thammasat University, Thailand
Dr. Alessandro ROMAGNOLI, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore
Dr. Robert de Souza, Executive Director, The Logistics Institute – Asia Pacific (TLI – Asia Pacific), Singapore
Dr. Jenson Goh, Chief Information and Learning Officer, Monde Nissin Singapore Pte Ltd., Singapore
Dr. Hoong Chuin LAU, Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab, Singapore Management University (SMU), Singapore
Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore
Dr. Noordin Mohd. Yusof, Professor, Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), and Former Dean of Faculty of Mechanical Engineering at UTM, Malaysia

The 21st IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss the workforce readiness and engineering education challenges and opportunities. The Industry 4.0 will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing and MSV. Industry Solutions will showcase best industry practices as well as shared experiences. Five panel sessions have been planned: Industry 4.0, Global Engineering Education, Supply Chain and Logistics, Women in Industry and Academia and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to our sponsors, university partners, organization partners, exhibitors, authors, reviewers, keynote speakers, panelists, track chairs, advisors, the local committee and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming successful event.

SUSS, conference host, welcome all participants. The IEOM Society Conference Planning Committee hopes you will enjoy Singapore conference. Lastly, our sincere best wishes to you all for a successful conference.

Enjoy the conference!



Associate Professor Tan Yan Weng
CONFERENCE CHAIR
Head, Logistics and Supply Chain
Management Programme, School of Business
Singapore University of Social Sciences



Dr. Robert de Souza
HONORARY CHAIR
Executive Director / CEO
The Logistics Institute - Asia Pacific
Singapore



Dr. Ahad Ali
CONFERENCE CO-CHAIR
Associate Professor and Director of Industrial
Engineering Programs, Lawrence
Technological University, Southfield, MI, USA

Conference Program

All times are Singapore Time

Zoom Meeting Room Links will be sent to authors

February 27, 2021 (Saturday)

7:00 am – 2:00 pm, Saturday, February 27, 2021 - High School STEM Competition

March 7, 2021 (Sunday)

08:00 – 09:45 am Parallel Sessions - Rooms 1-5

10:00 – 11:45 am Parallel Sessions - Rooms 1-5

12:00 – 01:45 pm Parallel Sessions - Rooms 1-5

02:00 – 03:45 pm Parallel Sessions - Rooms 1-5

04:00 – 05:45 pm Parallel Sessions - Rooms 1-5

06:00 – 07:45 pm Parallel Sessions - Rooms 1-5

08:00 – 08:45 pm **Keynote I: Dr. Mario Fagnoli**, Technical Director, Italian Ministry of Agriculture and Contract Professor at Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Italy - Room 1

09:00 – 11:45 pm Parallel Sessions - Rooms 1-5

March 8, 2021 (Monday)

08:00 – 09:45 am Parallel Sessions - Rooms 1-5

10:00 – 11:45 am Parallel Sessions - Rooms 1-5

12:00 – 01:45 pm Parallel Sessions - Rooms 1-5

02:00 – 03:45 pm Parallel Sessions - Rooms 1-5

04:00 – 05:45 pm Parallel Sessions - Rooms 1-5

06:00 – 07:45 pm Parallel Sessions - Rooms 1-5

08:00 – 09:45 pm Parallel Sessions - Rooms 1-5

March 9, 2021 (Tuesday)

8:00 – 9:30 Parallel Sessions - Rooms 1-5

9:30 – 9:40 **Welcome Keynote: Professor Cheong Hee Kiat**, President, Singapore University of Social Sciences - Room 1

9:40 – 10:20 **Keynote II (Opening): Dr. Hamid R. Parsaei**, Professor, Dept. of Industrial and Systems Engineering, Texas A&M University, College Station, Texas, USA - Room 1

10:20 – 11:00 **Keynote III: Alex Teo**, Vice President & Managing Director – South East Asia, Siemens Digital Industries Software, Singapore

11:00 – 11:40 **Keynote IV: Dr. Chung Piaw TEO**, Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA), NUS Business School, National University of Singapore - Room 1

11:40 – 12:20 **Keynote V: Dr. Benny Tjahjono**, Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster, Centre for Business in Society, Coventry University, UK - Room 1

12:20 – 1:00 **Keynote VI: Dr. Lu ZHEN**, Dean and Professor, School of Management, Shanghai University, Shanghai, China - Room 1

1:00 – 2:45 pm Parallel Sessions - Rooms 1-5

3:00 – 4:45 pm Parallel Sessions - Rooms 1-5

5:00 – 6:45 pm Parallel Sessions - Rooms 1-5

7:00 – 8:45 pm Parallel Sessions - Rooms 1-5

9:00 – 10:30 pm **Global Engineering Education Panel** – Room 1

March 10, 2021 (Wednesday)

8:00 – 9:30 Parallel Sessions - Rooms 1-5

9:30 – 9:40 **Conference Chairs Remarks**: - Room 1

9:40 – 10:20 **Keynote VII: Dr. Victoria Jordan**, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA - Room 1

10:20 – 11:00 **Keynote VIII: Dr. Koh Niak Wu**, CEO and CTO, Cosmigo International, Singapore - Room 1

11:00 – 11:40 **Keynote IX: Dr. Wahyudi Sutopo**, Professor, Dept. of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

11:40 – 12:20 **Keynote X: Prof. Ruth Banomyong**, Dean, Thammasat Business School, Thammasat University, Thailand - Room 1

12:20 – 1:00 **Keynote XI: Dr. Alessandro ROMAGNOLI**, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore - Room 1

1:00 – 2:45 pm Parallel Sessions - Rooms 1-5

3:00 – 4:45 pm Parallel Sessions - Rooms 1-5

5:00 – 6:30 pm Parallel Sessions - Rooms 1-5

6:30 – 9:00 pm Parallel Sessions - Rooms 1-5

9:00 – 10:30 pm **Diversity and Inclusion Panel sponsored by Ford Motor Company** – Room 1

March 11, 2021 (Thursday)

8:00 – 9:30 Parallel Sessions - Rooms 1-5

9:30 – 9:40 **Conference Chairs Remarks** - Room 1

9:40 – 10:20 **Keynote XII: Dr. Robert de Souza**, Executive Director, The Logistics Institute – Asia Pacific, Singapore - Room 1

10:20 – 11:00 **Keynote XIII: Jenson Goh**, Chief Information and Learning Officer, Monde Nissin Singapore Pte Ltd., Singapore - Room 1

11:00 – 11:40 **Keynote XIV: Dr. Hoong Chuin LAU**, Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab, Singapore Management University (SMU), Singapore - Room 1

11:40 – 12:20 **Keynote XV: Dr. Murphy Choy**, Director of Operations and Technology, SSON Analytics, Singapore - Room 1

12:20 – 1:00 **Keynote XVI: Dr. Noordin Mohd. Yusof**, Professor and Former Dean, Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Johor, Malaysia – Room 1

1:00 – 2:45 pm Parallel Sessions - Rooms 1-5

3:00 – 4:45 pm Parallel Sessions - Rooms 1-5

5:00 – 6:30 pm Parallel Sessions - Rooms 1-5

6:30 – 8:00 pm Parallel Sessions - Rooms 1-5

8:00 – 10:00 pm, Thursday, March 11: **Conference Awards Ceremony** – Room 1

Keynote Speakers

Welcome Keynote, Tuesday, March 9, 2021, 9:30 – 9:40 am



Professor Cheong Hee Kiat
President, Singapore University of Social Sciences

Professor Cheong Hee Kiat is Founding President of Singapore University of Social Sciences (SUSS). He joined academia in Nanyang Technological University in 1986, and held various academic and administrative appointments including Deputy President and Dean of Civil and Environmental Engineering.

He has served on the boards of several tertiary education institutions, the Public Utilities Board and Building and Construction Authority (BCA), and public committees. He has also been active in university accreditation and academic audits in Singapore and internationally. He is currently a member of the NIE Council, the Singapore Engineering Accreditation Board, and chairman of the BCA Academy Advisory Panel. He also chairs the Board of the Singapore Bible College.

Professor Cheong graduated from the University of Adelaide and the Imperial College, London. He is a registered Professional Engineer (Civil) and Fellow of the Institution of Engineers Singapore, the Singapore Academy of Engineers and the Society of Project Managers.

Keynote I: Sunday, March 7, 2021, 8:00 – 8:45 pm



Dr. Mario Fagnoli
Technical Director, Italian Ministry of Agriculture
Contract Professor at Faculty of Civil and Industrial Engineering
Sapienza University of Rome, Italy

Mario Fagnoli is currently employed at the Italian Ministry of Agriculture and collaborates with Sapienza – University of Rome as Contract Professor at the Faculty of Civil and Industrial Engineering, where he earned his PhD in 2005. From 2005 to 2007 he worked at the Department of Precision Machinery of the University of Tokyo as JSPS Fellow Researcher. His research interests mainly concern design for safety and human error, product-service systems (PSS), ecodesign as well as engineering tools and methods such as Quality Function Deployment (QFD), Analytic Hierarchical Process (AHP) and Analytic Network Process (ANP), Life Cycle Assessment.

Keynote II (Opening Keynote): Tuesday, March 9, 2021, 9:40 - 10:20 am



Hamid R. Parsaei, Ph.D., P.E.
Professor
Fellow, IISE, ASEE, SME, IEOM
Department of Industrial and Systems Engineering
Texas A&M University
College Station, Texas, USA

Dr. Hamid R. Parsaei is an internationally recognized leader in the field of manufacturing automation, leadership, engineering education, additive manufacturing, economic and financial decision making, and project management with more than three decades of experience in academia. He is awarded as a fellow IISE, ASEE, SME and IEOM.

Dr. Parsaei's leadership experience and accomplishments include serving as Professor and Associate Dean for Academic Affairs at Texas A&M University at Qatar (TAMUQ.) He also served as the Director of Outreach and Accreditation and the Interim Chair of the Mechanical Engineering at TAMUQ while holding the rank of Professor in the Department of Industrial and Systems Engineering at Texas A&M University in College Station, Texas. Prior to joining Texas A&M University, Dr. Parsaei served as Professor and Chair of the Department of Industrial Engineering at University of Houston for 10 years and Director of Graduate Studies and Graduate

Advisor for five years. He also served as Director of the Texas Manufacturing Assistance Center's Gulf Coast Region from March 2001 to September 2005.

Dr. Parsaei is highly regarded worldwide for his scholarship. He served as Area Editor, Methodology, and as an editorial board of The Engineering Economist from June 1990 until January 1995, and he was editor in chief of three international refereed archival journals. He currently serves as a member of the editorial boards and associate editor to over fifteen peer-refereed journals. He has been guest editor for several special issues of peer-reviewed archival journals, and has served as series editor to nine book series published by Wiley and Sons, CRC Press, Taylor and Francis, and several other publishing houses. His newest journal, Engineering Education Letters is a clear testament to Dr. Parsaei's dedication to engineering education.

Dr. Parsaei has been principal and co-principal investigator on projects funded by NSF, Qatar Foundation, the US Department of Homeland Security, Texas Department of Transportation, Houston Transtar, the National Institute of Standards and Technology and the National Institute of Safety and Health, among others, with total funding in excess of \$24 million. He has authored or co-authored 26 archival books and over 280 refereed publications that appear in archival journals and conference proceedings.

He has received several prestigious recognitions from IISE including, the Wellington Award (1993) from the Engineering Economy Division of the Institute for his original contributions to the field of engineering economics, Award of Merit in recognition of his service to the Engineering Economy Division during 1991–1992, the 2006 UPS Excellence Award for innovative development of programs directed to the development of women, minorities and people with disabilities within the field of industrial engineering. He garnered the 2016 George L. Smith Award and in 2018, he was honored with the Fred C. Crane Award for meritorious service to the IISE.

Dr. Parsaei received his M.S. and Ph.D. degrees in industrial engineering from Western Michigan University and the University of Texas at Arlington, respectively. He is a registered professional engineer in the State of Texas and an ABET Engineering Accreditation Commissioner and Program Evaluator.

Keynote III: Tuesday, March 9, 2021, 10:20 - 11:00 am

Alex Teo
Managing Director and Vice President - South East Asia
Siemens Digital Industries Software, Singapore

Alex Teo is Managing Director and Vice President of Siemens Digital Industry Software in South East Asia. Alex is responsible for managing all sales, through direct sales and indirect channel partners across the region, increasing Siemens Industry Software's market share and extending its leading position through customer innovation, thought leadership and business execution.

He has been instrumental in leading many Digital Transformation projects for his clients across South East Asia and helping his clients to grow using Digitalization approach. Before joining Siemens in 2009, he had previously held Application Engineering, Sales and Managing Director roles with another Nasdaq listed technology company for twelve years in South Asia region.

Alex earned a Bachelor and Master degree in Electrical Engineering Degree from the National University of Singapore and he has published several technical papers on microwave numerical modeling in technical journals like IEEE Transactions on Microwave Theory and Techniques and Microwave and Optical Technology Letters.

Keynote IV: Tuesday, March 9, 2021, 11:00 am - 11:40 am

Dr. Chung Piau TEO
Provost's Chair Professor
Executive Director, Institute of Operations Research and Analytics (IORA)
NUS Business School, National University of Singapore

Chung Piau TEO is Provost's Chair Professor and Executive Director of the Institute of Operations Research and Analytics (IORA) in the National University of Singapore. Prior to the current appointments, he was a Head of Department, Acting Deputy Dean, Vice-Dean of the Research & Ph.D. Program as well as Chair of the Ph.D. Committee in the NUS Business School. He was a fellow in the Singapore-MIT Alliance Program, an Eschbach Scholar in Northwestern University (US), Professor in Sungkyunkwan Graduate School of Business (Korea), and a Distinguished Visiting Professor in YuanZe University (Taiwan).

He is currently spearheading an effort to develop the IORA, as part of the University's strategic initiatives in the Smart Nation Research Program, as well as a department editor for MS (Optimization), and a former area editor for OR (Operations and Supply Chains). He studied issues in service and manufacturing operations, supply chain management, discrete optimization, and machine learning. He has also served on several international committees such as the Chair of the Nicholson Paper Competition (INFORMS, US), member of the LANCHESTER and IMPACT Prize Committee (INFORMS, US), Fudan Prize Committee on Outstanding Contribution to Management (China). He has received Ph.D. in Operations Research from Massachusetts Institute of Technology, USA, 1996 and Bachelor of Science (Hon) in Mathematics from National University of Singapore, Singapore, 1990.

Keynote V: Tuesday, March 9, 2021, 11:40 am - 12:20 pm

Benny Tjahjono, PhD MSc BEng
Professor of Supply Chain Management
Sustainable Production & Consumption Research Cluster
Centre for Business in Society
Coventry University, UK

Benny Tjahjono is Professor of Sustainability and Supply Chain Management and the co-leader of the Sustainable Production and Consumption cluster at the Centre for Business in Society (CBiS). His research track record has been demonstrated by winning a number of research grants from the Engineering & Physical Research Council (EPSRC), Economic and Social Research Council (ESRC), Academy of Medical Sciences (ACMEDSCI), InnovateUK, European Union, overseas funding agencies and directly from the UK industry sectors. He was one of the Principal Investigators and a member of a consortium consisting of seven

universities in Europe recently being awarded the Horizon2020 MSCA Innovative Training Network worth €3,995,643 in total, aiming to formulate the service-oriented business for the European Circular Economy.

Prof Tjahjono has a vested interest in sustainability and environmental conservation. Over the last five years he has focused his overarching research area on Sustainable Operations and Supply Chain Management, in particular, the exploration of Circular Economy principles in manufacturing processes. He is an engineer by education and has a strong background in contemporary simulation and modelling techniques, including discrete-event simulation, agent-based simulation and system dynamics. He has applied these techniques, amongst others such as Life-Cycle Assessment/Analysis (LCA), in addressing sustainability issues in modern factories, by proposing an environmentally-conscious manufacturing systems design method, as an innovative way to achieve the triple bottom line objectives, 'doing good for people, planet and profit'.

He has published over 90 papers in refereed academic journals, conference proceedings, books, practitioners' journals and newspapers. He has completed the supervision of 12 PhD and over 100 MSc students, and currently leads a team of four doctoral researchers in many emerging areas related to supply chain and operations management. As part of his duty, he is also actively involved in nurturing early career researchers.

Keynote VI: Tuesday, March 9, 2021, 12:20 - 1:00 pm

Dr. Lu ZHEN
Dean and Professor
School of Management
Shanghai University
Shanghai, China

Lu Zhen is a Professor and Dean in the School of Management at Shanghai University. He got his B.S. and Ph.D. degrees from Shanghai Jiao Tong University in 2003 and 2008, respectively. He worked at National University of Singapore as a Postdoctoral Research Fellow before joining Shanghai University in 2011 as Assistant Professor, and was promoted as Associate Professor and Full Professor after half a year and one year, respectively. His research interests include logistics and supply chain management, operations research, optimization in port and shipping management, and knowledge management. He has published 80 SCI and SSCI journal papers on some reputable journals such as Transportation Science, Transportation Research Part B, Naval Research Logistics, and IIE Transactions. He is the PI of 15 projects including five at the national level. He has served as an associate editor or an editorial board member of five SCI/SSC journals such as Transportation Research Part B, Journal of the Operational Research, Computers & Operations Research; and he is also the Fellow of the Operational Research Society (U.K.). He has been awarded National Funds for Distinguished Young Scientists in China, National Funds for Outstanding Young Scientists in China, Changjiang Young Scholar in China, and etc.

Transportation Research Part B, Journal of the Operational Research, Computers & Operations Research; and he is also the Fellow of the Operational Research Society (U.K.). He has been awarded National Funds for Distinguished Young Scientists in China, National Funds for Outstanding Young Scientists in China, Changjiang Young Scholar in China, and etc.

Keynote VII, Wednesday, March 10, 2021, 9:40 - 10:20 am

Dr. Victoria Jordan, PhD, MS, MBA
Vice President - Quality
Emory Healthcare
Atlanta, Georgia, USA

Dr. Victoria Jordan, PhD, MS, MBA, is Vice President - Quality at Emory Healthcare where she leads the development, coordination, and implementation of quality improvement efforts across Emory Healthcare. This includes strategic oversight of quality initiatives across Emory's eleven hospitals and over 300 primary care and specialty clinics. The Office of Quality includes patient safety and infection prevention, process improvement, regulatory compliance, quality education, and clinical quality analytics. Dr. Jordan also serves as the Director of Performance Improvement and Analytics for the Kennedy Initiative for Transforming Care where she leads the effort to define and operationalize the vision of expanding EHC performance improvement, quality education, and analytics capabilities using Lean and other approaches to achieve high reliability.

In her previous role as Executive Director of Strategic Management and Systems Engineering at M.D. Anderson Cancer Center (2008-2017), she led Quality/Systems Engineering, Strategic Planning and Management, and Clinical Informatics within the Office of Performance Improvement. In addition, Dr. Jordan served as the University of Texas Chancellor's Health Fellow for Systems Engineering, coordinating and promoting the use of Systems Engineering in health care institutions in collaboration with the Engineering and Business Schools within the University of Texas System. She is the co-author of a McGraw-Hill textbook, Design of Experiments in Quality Engineering, author of several peer reviewed articles, and has served in several academic faculty positions in Industrial Engineering, Business, and Statistics.

Dr. Jordan received her Ph.D. (2006) from Auburn University in Industrial and Systems Engineering with an emphasis in applied statistics and received the Auburn University Distinguished Alumna of the Year Award for Industrial and Systems Engineering in 2017. She holds an M.B.A. from the Ohio State University, an M.S. (1987) in Industrial and Systems Engineering from Auburn University, and a B.S. from the University of Kentucky in Statistics, with minors in Computer Science and Mathematics. Dr. Jordan serves on the Engineering Council for Auburn University and the Industry Advisory Boards for departments of Industrial and Systems Engineering at the University of Houston and the University of Central Florida. Dr. Jordan is a senior member of the American Society for Quality, a member of the American Statistical Association and the Society of Healthcare Systems, a Fellow of the Institute of Industrial and Systems Engineers (2010-2021 President), and the Healthcare representative to the international Council of Industrial and System Engineers. She is a Six Sigma Master Black Belt, Certified in Medical Quality, and has over 30 years of experience providing management and statistical consulting in manufacturing, service, and health care organizations.

Keynote VIII, Wednesday, March 10, 2021, 10:20 - 11:00 am

Dr. Koh Niak Wu
CEO
Cosmigo International Pte Ltd
Singapore

Dr. Koh Niak Wu is the Founder and CEO of Cosmigo International Pte Ltd, a company that is focused on building intelligent systems that optimises resource allocation for 4-wall operations. He specialises in supply chain analytics, strategy execution and operations management innovation. He is an Intellectual Transcendences 2019 recipient recognised by the Asian Productivity Organisation and China Productivity Centre.

Dr. Koh was formerly part of the Global Supply Chain and Logistics team at Dell contributing to strategy analytics. He was also in the Planning and Operations Management Group at SIMTech, A*STAR where he gained valuable insights into the evolution of industries. Additionally, Dr Koh is an Adjunct Faculty at the Singapore Management University (SMU) and Singapore University of Social Sciences where he shares his views and cross-industry experiences on supply chains and operations management. He is also an Expert with the Asian Productivity Organisation (APO) and has been sharing his views on the future economy across Asia and the Pacific.

Dr. Koh codes, believes in the power of operational analytics and how it shapes business decisions. He holds a Doctor of Philosophy in Robotics from the National University of Singapore and a Bachelor of Engineering (Double 1st) from King's College London.

Keynote IX, Wednesday, March 10, 2021, 11:00 - 11:40 am

Dr. Ir. Wahyudi Sutopo, ST., M.Si, IPM
Professor, Department of Industrial Engineering
Vice Dean for General and Financial Affairs, Faculty of Engineering, 2019-2023
Past Head of Department of Industrial Engineering
Coordinator of Industrial Engineering and Techno-Economy (RITE) Research Group (FY 2016-now)
Universitas Sebelas Maret (UNS)
Surakarta, Indonesia

His educational background is the profession of engineer (Ir) from the Professional Engineer Program – Universitas Sebelas Maret (UNS) in 2018; Doctor (Dr) in Industrial Engineering & Management from Institut Teknologi Bandung in 2011; Master of Management (M.Sc.) from Universitas Indonesia in 2004, and Bachelor of Industrial Engineering (S.T.) from Institut Teknologi Bandung in 1999. He has professional qualifications as an associate professional engineer (P.Eng) since 2016. Since 2019, he was given the mandate as deputy dean of the general and financial affair of the Faculty of Engineering UNS. At UNS, he was the head of the industrial engineering undergraduate study program (2015-2019); as an asset auditor of the internal supervisory unit (2014-2019); and the head of UNS technology innovation center (2014-2016). He is also as General Chair of the Indonesian industrial engineering higher education institution cooperation agency (BKSTI) for the 2017-2020; Assessor of BAN-PT (Noreg. 2017-01215); researcher for MIT-Indonesia Research Alliance (MIRA) research collaboration; and researcher for National Center for Sustainable Transportation Technology (NC-STT). He had experience working in the electronics industry as an engineer at PT. Panasonic Manufacturing Indonesia (formerly PT. Panasonic Gobel) from 2000-2003. Areas of research interest are in the fields of logistics & supply chain management, engineering economy & cost analysis, and technology commercialization. He has received more than 30 research grants. He has written 3 textbooks and 7 chapter books and made 4 copy works. Scopus author id: 42062336300, publication - 130 documents; with 8 h-index. SINTA author id: 1778; score: 1746.5 (3 years score); 233-rank in national; 9-rank in affiliation (UNS).

Keynote X, Wednesday, March 10, 2021, 11:40 am - 12:20 pm

Prof. Ruth Banomyong
Dean
Thammasat Business School
Thammasat University
Thailand

Ruth Banomyong is currently Dean at the Faculty of Commerce & Accountancy (a.k.a. Thammasat Business School), Thammasat University in Thailand. He is a Professor in the Department of International Business, Logistics and Transport Management. Ruth Banomyong is on the board of WICE Logistics (Public) Co. Ltd. and 2 other companies. He was a board member of the Civil Aviation Authority of Thailand. Prof Banomyong received a graduate degree and an undergraduate degree from Université Paris 1, an undergraduate degree from Lycee Michelet and a doctorate from Cardiff Business School. His primary research interests are in the fields of multimodal transport, international logistics, logistics policy development and supply chain performance measurements. He also has a diploma to teach muay thai (thai boxing).

Keynote XI, Wednesday, March 10, 2021, 12:20 - 1:00 pm

Dr. Alessandro ROMAGNOLI, BA (Hons), MEng, CEng, PhD
Associate Professor
School of Mechanical and Aerospace Engineering
Co-Director of the Surbana Jurong Corporate Lab @ NTU
Cluster Director on Multi-Energy Systems and Grids
Energy Research Institute @ NTU (ERI@N)
Nanyang Technological University
Singapore

Alessandro gained a First Degree cum laude in Mechanical Engineering in 2003 from the "University of Ancona" in Italy, after which he worked for two years at Lucci Collettori Spa (Ancona, Italy) where he supervised the design and production of commutators for electric motors. In 2006 he worked for 6 months at Seagate Technology Inc. and he then began a PhD at Imperial College London in the Thermo-Fluids Division focussing on aerodynamic study of single and twin-entry mixed flow turbines under unsteady conditions. As a part of his research, he also studied heat transfer effects occurring in turbochargers. After completing his PhD in 2010,

Alessandro worked as Research Associate at Imperial College London. He acted as research co-investigator in projects looking at engine downsizing, waste heat recovery, and mild-hybridization of powertrain technology in passenger vehicles as well as in optimization and design of novel turbine concepts. He collaborates extensively with world leading OEMs in powertrain R&D (Jaguar and Land Rover, Lotus, Ford, CAT, MHI, Honda, ABB, etc.).

In 2013, he joined Nanyang Technological University as an Assistant Professor. His responsibilities include teaching undergraduate courses, run lab-tutorial, supervising PhD students and FYPs. Alessandro's research activity in NTU encompasses several aspects related to propulsion, energy efficiency and thermal energy recovery and management. Examples of his current research include the study of waste heat recovery such as ThermoElectric Generators design and analysis, Organic Rankine Cycles optimization, Turbocharging and Thermal Energy Storage; Alessandro is also championing the effort on Cold Energy Recovery and Cold Economy in Singapore.

Besides his academic activity Alessandro has also worked for three years (2010-2013) as engineering consultant under ICON (Imperial College CONsultant). In 2012, he founded a UK-based engineering consultancy company offering design, test and advice on energy efficiency, turbomachinery and waste heat recovery systems. Alessandro also acts as reviewer for several engineering journals (ASME, SAE, IMechE, Elsevier), collaborates as freelancer with the automotive magazine Torque (published in Singapore).

Keynote XII, Thursday March 11, 2021, 9:40 - 10:20 am

Dr. Robert de Souza
Executive Director
The Logistics Institute - Asia Pacific (TLI - Asia Pacific)
Singapore

Dr. Robert de Souza is the Executive Director of the The Logistics Institute - Asia Pacific (TLI - Asia Pacific). Robert is a Chartered Engineer and a distinguished writer, speaker, consultant and advisor in the area of supply chain management. Prior to this appointment, effective May 1st 2004, Dr Robert de Souza served as Deputy Executive Director (Industry) and IT Director at TLI - Asia Pacific. Previously, Dr de Souza was Executive Vice President (Asia Pacific) for V3 Systems. His extensive tenure in the industry also includes serving as the Corporate Senior Vice President and Global Chief Knowledge Officer at Viewlocity Inc. and co-founder, Vice Chairman and CEO of SC21 Pte, Ltd., a Singapore-based supply chain software firm. As an educator, Dr de Souza is an Adjunct Professor in the School of Industrial and Systems Engineering at Georgia Institute of Technology in Atlanta and also a Senior Fellow in the Department of Industrial and Systems Engineering at the National University of Singapore and has previously served as a professor and in several senior positions in the School of Mechanical and Production Engineering at Nanyang Technological University in Singapore. Dr. de Souza is a member of the Editorial Boards of the International Journal of Computer Integrated Manufacturing and the International Journal of Logistics Research and Applications. Dr de Souza also serves on the Advisory Panel of The Chartered Institute of Logistics and Transport, Singapore (CILTS), as a Council Member of the Singapore eSupply Chain Management (eSCM) Council and on the Boards of

Directors/Advisors of several IT- based corporations

Keynote XIII, Thursday, March 11, 2021, 10:20 - 11:00 am

Dr. Jenson Goh
Chief Information and Learning Officer
Monde Nissin Singapore Pte Ltd
Singapore

Dr. Jenson is the Chief Information and Learning Officer of Monde Nissin Group, a USD1.5 billion multi-national company that operates from Philippines, Thailand, Singapore, and UK. He is currently responsible in leading the global IT initiatives, driving the organisation towards a learning organisation and is a member of the management committee that is leading the sustainability initiatives in the company.

Prior to becoming a senior management, he was Director of Studies, Residential College 4. His responsibility involved the realization of a transformative programme to develop students into able system thinkers. He was an international award winning

teaching case writer and multiple years NUS teaching award winner. His research strives to uncover ways to help organizations/society deal with wicked problems through the innovative use of IT and in the application of innovative teaching methods to drive learning. He had published >50 articles in top tier journals and conferences, books, press and practitioner's publications.

Before that, Dr. Jenson had >16 years in strategizing IT use as a Chief Enterprise Architect. He had extensive experience driving many IT initiatives to support University's teaching, research and administration. In 2003, he was selected by Infocomm Authority of Singapore and Sun Microsystems for the prestigious 8 months Java Black Belt programme to be groomed as leaders in Singapore's IT industry. For his innovative use of IT and service to the University, he had won >20 international and national awards which include the NUS service champion and NUS IT Director's awards.

Dr. Jenson had served as the Head, Manpower and Logistics (NS) in the Singapore Police Force responsible for the operational readiness of 1,600 NSmen for more than 10 years. For his dedication, he received multiple awards from the Commissioner of Police and Division Commander including the most prestigious Home Team NS man of the year award in 2018.

Dr. Jenson has years of consulting works across the globe in diverse industries. He is still well sought after by companies around the world for his knowledge and capabilities in leading transformational works.

Dr Jenson is an avid societal contributor. His volunteering services include member of two national level ISO committees, Vice Chairmans/members in multiple committees, the President, Asia Pacific Coordinating Policy Council of System Dynamics Society and a Committee Member in the Environment Functional Committee of the South West District Community Development Council.

Keynote XIV, Thursday, March 11, 2021, 11:00 am - 11:40 am



Dr. Hoong Chuin LAU
 Professor of Information Systems and
 Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab
 Singapore Management University (SMU), Singapore

Hoong Chuin LAU is Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab at the Singapore Management University (SMU). He is also a specially appointed professor (Information and AI) at the School of Computing in the Tokyo Institute of Technology. Prior to joining SMU, he was a research scientist at the Institute of Infocomm Research in Singapore (1997-1999), and assistant professor at the School of Computing, National University of Singapore (2000-2005).

The common thread running through his research is a focus on going beyond publications to build usable novel tools and prototypes, a number of which have been testbedded and deployed in industry. Working at the interface of Operations Research and Artificial Intelligence, he is interested in combining data analytics and optimization for decision-making in business. More specifically, he works on optimization models, agent-based models, and metaheuristics for data-driven resource planning, scheduling and coordination problems in logistics, transportation, and travel planning. Recently, his focus is on such planning and operations problems in urban contexts. He was awarded the Lee Kwan Yew Fellowship for research excellence in 2008. He currently serves on the editorial board of the Journal of Scheduling, and the Web Intelligence Journal, and previously served as Associate Editor for the IEEE Transactions on Automation Science and Engineering.

He has been involved in consulting projects in logistics and transportation, for companies such as DHL, Fedex, Bax Global, PSA, EADS, ST Engineering, and various government agencies. He is a chartered member of the Chartered Institute of Logistics and Transportation, and currently serves on the CILT Singapore board of directors. For his work with the Singapore Ministry of Defense, he won the National Innovation and Quality Convention Star Award in 2006, and was nominated for the prestigious Defense Technology Prize (individual category) in 2007.

Throughout his 20 years of full-time university lecturing experience, he taught a number of undergraduate and graduate courses, including AI Planning and Decision Making, Design and Analysis of Algorithms, Combinatorial Graph Algorithms, Computer as an Analysis Tool, Computational Thinking, Algorithms and Optimization, Advanced Topics in Intelligent Systems, and Enterprise Analytics for Decision Support. He is co-author of the textbook "Business Analytics for Decision Making" published by CRC Press in 2016.

Twice a recipient of Singapore government scholarship from the Infocomm Development Authority (IDA), Hoong Chuin obtained his Doctorate of Engineering degree in Computer Science from the Tokyo Institute of Technology (Japan) in 1996, and BSc and MSc degrees in Computer Science from the University of Minnesota (Minneapolis, USA) in 1987 and 1988.

Keynote XV, Thursday, March 11, 2021, 11:40 am - 12:20 pm



Dr. Murphy Choy
 Director of Operations and Technology
 SSON Analytics, Singapore
 Certified Advanced Programmer for SAS V9
 Certified Basic Programmer for SAS V9
 DataShaping Certified SAS Professional

Murphy has over a decade of experience in the area of data analytics and machine learning. His expertise lies in the use of data to drive business results and developing solutions and products driven by data. Murphy has held a variety of positions in both industry and academia. He has held senior management positions in data science, technology and operations. His works in the area of data refinery and analytics has also won an award for best industry solution. He was also a former instructor in the university and has won a teaching award for his work. He has extensive consulting experience with banks, financial institutions, logistics companies, airport, sea ports and governments. Murphy holds a Doctorate of Professional Studies in Business Analytics from

Middlesex University London, Masters of Finance from University College Dublin and Bachelor of Statistics from National University of Singapore. He also holds a diploma of Economics from University of London and Post Graduate Certificate in Business Research from Heriot-Watt University.

Keynote XVI, Thursday, March 11, 2021, 12:20 - 1:00 pm



Dr. Noordin Mohd. Yusof

Professor, Department of Materials, Manufacturing and Industrial Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia (UTM), Skudai, Johor
Former Dean of Faculty of Mechanical Engineering at UTM

Dr. Noordin Mohd. Yusof is a Professor at the Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Skudai, Johor. He earned his B. Mech. Eng. (Hons) and Ph. D. in Mechanical Engineering from UTM and M. Sc. (Advanced Manufacturing Technology) from Cranfield Institute of Technology, U.K. Prior to joining the university in 1987; he worked in Harris Semiconductor Malaysia and Matsushita Industrial Corporation in the Quality and Production Engineering departments respectively. He has conducted and supervised numerous research projects on machinability studies, sustainability, statistical quality control, maintenance and membrane manufacture. He has published and presented his works at various international and national seminar/conferences on the above subject matters. Additionally, he has also published papers in various national and international scientific journals. Professor Noordin has held various administrative positions in UTM Dean and Deputy Dean (Development) at the Faculty of Mechanical Engineering.



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20th IEOM Global Engineering Education, Singapore

DISTINGUISHED SPEAKERS

Tuesday (March 9, 2021)

Session I: Global Engineering Education

Session Chair: Sheikh F. Ferdous, Indiana State University, Terre Haute, IN 47809, USA

8:00 – 9:20 am (Tuesday, March 9) – Room 1

8:00 – 8:20 am (Tuesday, March 9)



Dr. David Lin Weidong

Assistant Professor

Singapore Institute of Technology (SIT)

Certified Six Sigma Black Belt by American Society of Quality

David Lin Weidong is currently an Assistant Professor with the Singapore Institute of Technology (SIT). He is a member of IEEE and a principle investigator of research project related to cyber physical digital twin manufacturing system. He obtained both his PhD in System and Industrial Engineering and MBA from Nanyang Technological University of Singapore. He is also a Certified Six Sigma Black Belt by American Society of Quality. His current research interest is in the cyber physical digital twin system, systems modelling and simulation.

ID 241 An Integrated Engineering Education Alignment Model towards Industry 4.0

W.D. Lin and M. Y. H. Low, Singapore Institute of Technology, Singapore

8:20 – 8:40 am (Tuesday, March 9)



Josephine D. German

Associate Professor

School of Industrial Engineering and Engineering Management

Mapua University, Manila, Philippines

Josephine D. German is an Associate Professor of the School of Industrial Engineering and Engineering Management at Mapua University in Manila, Philippines. She has earned her BS in Industrial Engineering and Masters in Engineering (major in IE) from the same University. She is a Professional Industrial Engineer (PIE) with over 15 years of experience and has taught several courses in IE. She has done several research projects in the field of logistics and supply chain management, systems modelling, entrepreneurship, risk management, vulnerability assessments, and ergonomics and has an extensive experience in academic audits and accreditations. She is also a member of the Philippine Institute of Industrial Engineers (PIIE).

ID 475 Employability and Achievement of Program Educational Objectives: A Graduate Tracer Study for Industrial Engineering (IE), Engineering Management (EMG), and Service Engineering Management (SEM) Programs of an HEI in the Philippines

Josephine D. German, Ma. Lourdes O. Buan, Alyana Bianca G. Carreon, and Marjorie Joyce D. Ochoa

School of Industrial Engineering and Engineering Management

Mapua University, Manila, Philippines

8:40 – 9:00 am (Tuesday, March 9)



Dr. Moe Moe Myint

Associate Professor, Department of Information Technology

Technological University (Mandalay)

Myanmar

Dr. Moe Moe Myint, is working as the associate professor at Technological University (Mandalay), Myanmar, having research and teaching experiences of more than 9 years. She received Ph.D degree from Yangon Technological University (YTU) in 2015. She has published more than 10 publications in international/national journals and conference proceedings. She received paper award for her research contributions at Technological University (Kyaukse) in 2016 and congratulations award for Adult Literacy Program Contributions in 2019. She has delivered some invited talks in international conferences and Faculty development programme. She is serving as a reviewer and member at international advisory/technical program committees in conferences of India. She successfully organized three workshops related to Embedded System course. She

has completed the international/national courses related to Outcome based Education (OBE) on Professional Development Workshop Using MekongSkills2WorkToolkits, OBE and Academic QA, Curriculum Design for Engineering Degree, 21st Century University Education, Curriculum Development Workshop, Different Applied International Business Management Systems and Strategies for Interdisciplinary Engineering Services and Requirements and Inservice Technical Teacher's Training on Teaching Methods and Student Evaluation. Her research interests include image processing, embedded system, IoT and OBE.

ID 536 An Explorative Study to build the Work Readiness for Engineering Students

Moe Moe Myint, Thiri Kyaw and Zin May Zaw, Department of Information Technology, Technological University (Mandalay), Myanmar

9:00 – 9:20 am (Tuesday, March 9)

**Sheikh Fahad Ferdous, Ph.D.**

Assistant Professor

Department of Applied Engineering and Technology Management
Indiana State University, Terre Haute, IN 47809, USA

Sheikh Fahad Ferdous, Ph.D. is an Assistant Professor in the Department of Applied Engineering and Technology Management at the Indiana State University, USA. Before that, he served as a lecturer at the University of Massachusetts Dartmouth and a visiting assistant professor at Binghamton University – SUNY. He earned B.S. in Mechanical Engineering from Bangladesh University of Engineering and Technology and Ph.D. in Mechanical Engineering from University of Texas at Arlington. His research interests include nano-mechanics and nano-composites, multi-scale modeling, bio-mechanics, resilient ceramic materials, and engineering education.

ID 090 Comparing Ph.D. in Engineering Management and Technology Management Programs

Sheikh F. Ferdous, M. Affan Badar, James N. McKirahan, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, IN 47809, USA

Session II: Global Engineering Education

Session Chair: Dr. Mohammad Yeakub Ali, University Technology Brunei

1:00 – 2:40 pm (Tuesday, March 9) – Room 1

1:00 – 1:20 pm (Tuesday, March 9)

**Dr. Jafri Mohd Rohani**

Head of the Industrial Engineering Programme

Department of Materials, Industrial and Manufacturing Engineering

Faculty of Mechanical Engineering

Universiti Teknologi Malaysia

Skudai, Johor, Malaysia

Curriculum Design/ Benchmarking of Industrial Engineering Program

Jafri Mohd Rohani is a Senior Quality and Statistical Engineering Lecturer. He is also Head of the Industrial Engineering Programme at the Department of Materials, Industrial and Manufacturing Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor. Currently, he is the President of JohorCost and Quality Engineers Society. He is a member of the American Society for Quality (ASQ) and Human Factor Society of Malaysia.

1:20 – 1:40 pm (Tuesday, March 9)

1:40 – 2:00 pm (Tuesday, March 9)

**Dr. Kinnaleth VONGCHANH**

Senior Lecturer-Research, Thermal Laboratory

Department of Industrial and Mechanical Engineering

Institute of Technology of Cambodia (ITC)

Phnom Penh, Cambodia

Dr. Kinnaleth Vongchanh is an international senior lecturer and research in Department of industrial and mechanical engineering; she has led thermal laboratory, ITC. Her major is about energy efficiency, waste to energy, solar drying, and heat stress. She has been a main principal investigator for various grants at National university of Laos and Institute of Technology of Cambodia. She has joined research collaboration with many universities including EUROP and ASIA. Besides that, Dr. Kinnaleth VONGCHANH is working closely with ministry of mine and energy, and ministry of environment in Cambodia to support the ministry on energy efficiency policy for GHG emission reduction. Moreover, she has good collaboration with industrial and private sectors related to energy efficiency and management. Dr. K. Vongchanh has received the best researcher award and the best top three research in ITC for continuously. She also received an award in the 2020 ASEAN Energy Awards. She is a senior woman working in field of energy in Laos and Cambodia.

2:00 – 2:20 pm (Tuesday, March 9)

**Soma Chakrabarti, Ph.D.**

Education Programs Team Lead

Ansys Granta, Cambridge, CB1 7EG, UK

Designing Global Engineering Education in the Era of Industry 4.0

Soma Chakrabarti leads the Education Programs and Resources team at the Ansys Granta, located in Cambridge, UK. Earlier she has worked as the assistant dean of Summer Term at the University of Wisconsin-Madison, director of Continuing Studies at the University of Delaware, and the director of Center for Engineering and Interdisciplinary Professional Education at the University of Kansas. She is known for developing professional education programs for and partnerships with all major aircraft manufacturers in the world. She is the current first vice president of International Federation of Engineering Education Societies, the current president of International Association for Continuing Engineering Education and a director of the College-Industry Partnership Division Board. She has a Ph.D. in biochemical engineering and biotechnology from Indian Institute of Technology, Delhi.

2:20 – 2:40 pm (Tuesday, March 9)



Professor Ir. Dr. Mohammad Yeakub Ali
 Mechanical Engineering Programme, Faculty of Engineering
 Universiti Teknologi Brunei, Brunei Darussalam
 Editor-In-Chief: International Journal of Engineering Materials and Manufacture

Quality Assurance in Engineering Education: Accreditation & Its Global Influence

Mohammad Yeakub Ali is a Professor in Mechanical Engineering Programme Area at Universiti Teknologi Brunei. Dr. Ali was a Professor in the Department of Manufacturing and Materials Engineering at International Islamic University Malaysia where he works for 15 years. He earned B.S. in Mechanical Engineering from Bangladesh University of Engineering and Technology, Dhaka, Masters in Manufacturing Systems Engineering from Asian Institute of Technology, Thailand, and PhD. in Mechanical Engineering from Nanyang Technological University, Singapore. He has published more than 250 articles in journal and conference proceedings. His research interests include manufacturing systems, optimization, scheduling, machining and micromachining.

He has supervised many postgraduate students at Masters and PhD level. Dr. Ali has contributed to biannual International Conference on Advances in Manufacturing and Materials Engineering as a Conference Chair, Technical Chair and Publication Chair since 2012. He is a Chartered Engineer with the Engineering Council UK, a Chartered Professional Engineer with Engineers Australia, a Professional Engineer with the Board of Engineers Malaysia and a Professional Engineer with Bangladesh Professional Engineers Registration Board as well as the member of many professional societies including ASME, IEOM, and IEM.

Session III: Global Engineering Education

Session Chair: Dr. Devinder Banwet, Vice Chancellor Founding, University of Engineering & Management, Kolkata India

3:00 – 4:40 pm (Tuesday, March 9) – Room 1

3:00 – 3:20 pm (Tuesday, March 9)



Corina Pacher
 Resources Innovation Center
 Montanuniversitaet Leoben
 Franz Josef-Strasse 18, 8700
 Leoben, Austria

ID 282 Virtual E-Learning Community Hub – For Higher Education in the Raw Materials Sector

Corina Pacher is an Education Project Manager at the Resources Innovation Center in Leoben. She studied pedagogical and educational science at the University of Klagenfurt with a specialization on social and inclusive education as well as on professional education. During and after her studies, she gained work experience, e.g., as the head of educational programs and in different social public service enterprises as social education worker. Currently, she is mainly focusing on raising the awareness for a resource-orientated handling of raw materials by connecting research, education, and society, e.g., by building and expanding skills and competencies of students through training initiatives.

3:20 – 3:40 pm (Tuesday, March 9)



Matteo De Marchi
 Smart Mini Factory lab for Industry 4.0
 Research Group Industrial Engineering and Automation (IEA)
 Free University of Bolzano, Italy

Matteo De Marchi is doctoral student at the Smart Mini Factory lab for Industry 4.0 at the research group Industrial Engineering and Automation (IEA) of the Free University of Bolzano (Italy). His research interests are in digital twin, industry 4.0, automation 4.0, collaborative robotics and intelligent manufacturing systems.

ID 249 Needs Analysis for Education and Training on Automation 4.0 in Thailand

Erwin Rauch and Matteo De Marchi, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, Bolzano 39100, Italy

Prajaks Jitngernmadan, Digital Media and Interaction Laboratory, Faculty of Infomatics, Burapha University, Chon Buri 20131, Thailand
 Felipe M. Martin, Department of Electrical Engineering, Universidad de Oviedo, Área de Ingeniería de Sistemas y Automática Gijón, Spain

3:40 – 4:00 pm (Tuesday, March 9)



Dr. Md. Mizanur Rahman, CEng, Chartered Energy Engineer
 Senior Lecturer, School of Mechanical Engineering
 University Technology Malaysia (UTM)
 Skudai, Johor Bahru, Malaysia

Md. Mizanur Rahman is currently a Senior Lecturer at Thermo-Fluids Panel, School of Mechanical Engineering, Universiti Teknologi Malaysia UTM, Johor Bahru, Malaysia. Dr. Mizanur is a certified Chartered Energy Engineer by Energy Institute UK. Before joining at UTM, he has served as a Postdoctoral Researcher at Aalto University School of Engineering, Finland. Mizanur also has more than 12-year working experience in a government statutory body namely Bangladesh Rural Electrification Board (BREB), Bangladesh. During his tenure in BREB, Mizanur has gathered practical experiences in dealing with techno-economic and sociocultural challenges faced by rural electrification program. He has accumulated deep insights towards the solution pathways for the Global Mega-challenge of having 1.2 billion people without access to electricity yet. Mizanur has sound understanding into the global energy sector challenges and its societal implications. He has received his Ph.D. in Energy Economics and Power plant Engineering from Aalto University, Finland, M.Sc. in Sustainable Energy Engineering from Royal Institute of Technology KTH, Sweden, and B.Sc. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh. His research interests include Thermodynamics, low temperature Kalina cycle, energy economics, energy management, energy efficiency

and system, sustainable and renewable energy, energy system modelling, Life-Cycle analysis, distributed power generation, multicriteria evaluation etc. Mizanur has several publications in International referred journals in energy engineering domain.

4:00 – 4:20 pm (Tuesday, March 9)



Dr. Tiia Rütümann

Associate Professor Engineering Pedagogy/Higher Education Pedagogy
Ph.D Education (Engineering Pedagogy); M.Sc. Chemical Engineering
Head of Estonian Centre for Engineering Pedagogy, School of Engineering
Tallinn University of Technology TalTech, Tallinn, Estonia

Engineering Pedagogy Science as the Basis of Effective Teaching Engineering

Tiia Rütümann is Associate Professor and Head of Estonian Centre for Engineering Pedagogy at the Department of Mechanical and Industrial Engineering, School of Engineering, Tallinn University of Technology (TalTech), Estonia. She is also a visiting professor at Peter the Great Polytechnic University of St Petersburg (Russia) in the field of Engineering Pedagogy. She graduated TalTech as Diploma Engineer in the field of Chemical Engineering and Cybernetics in 1982, and received her second MSc in chemical engineering at TalTech in 1992. She defended her PhD in education (with specialization in Engineering Pedagogy) at University of Hradec Králové, Czech Republic in 2007. She is a member of International Society for Engineering Pedagogy (IGIP) since 2003, and received the qualification of International Engineering Educator ING.PAED.IGIP in 2004. She is a member of IGIP Executive Committee and the president of IGIP International Monitoring Committee since 2010. Tiia is a member of SEFI, IEEE Education Society, Nordic-Baltic Network in Higher Education Development, Delta Kappa Gamma International Society for Key Women Educators, and IEEE EDUCON advisory board. She is the author and co-author of more than 90 peer-reviewed articles. She has written several book chapters and published a Handbook on Engineering Pedagogy Science and STEM didactics in 2019. She has delivered workshops on engineering pedagogy in Europe, Russia, Brazil, Mexico, China and Argentina. She has participated in 18 research projects and coordinated five of them. Her field of expertise and research are Engineering Pedagogy Science, effective teaching of engineering, STREAM pedagogy, university didactics, laboratory didactics, e-learning didactics, innovative methodologies, course and curriculum design in engineering education.

4:20 – 4:40 pm (Tuesday, March 9)



Dr. Devinder Banwet

Vice Chancellor Founding
University of Engineering & Management
Kolkata India
Professor Emeritus, IIT Delhi

***NEP 2020 and Pandemic impact disruption impact on Indian Education:
Teaching Learning Evaluation Assessment: Some observations and remedies***

Prof. Devinder Kumar Banwet is Vice Chancellor at University of Engineering & Management Kolkata India. He is an Emeritus Professor of DMS IIT Delhi in the area of Operations & Supply Chain Management and a Fellow of the Institution of Engineers (India). He is a Graduate Mechanical Engineer, with Master of Industrial Engineering and PhD from IIT Delhi. Previously he served as a Vice Chancellor of the University of Engineering and Management at Kolkata. He has made significant contributions in publications related to Operations Management. His areas of research interest include Operations Management, Supply Chain and Logistics Management, Project Management, IT-enabled DSS, Industrial Systems Engineering, Total Quality Management, Manufacturing Strategy, Technology Management, Materials Management, Facilities Planning, Operations Research Modelling, Telecom Systems and Entrepreneurship Management.

Session IV: Global Engineering Education

Session Chair: Dr. Sara Elzarka, Arab Academy for Science, Technology & Maritime Transport, Alexandria Egypt

5:00 – 6:40 pm (Tuesday, March 9) – Room 1

5:00 – 5:20 pm (Tuesday, March 9)



Dr. Sara Elzarka

Dean, International Transport & Logistics Institute
Arab Academy for Science, Technology & Maritime Transport
Alexandria Egypt

Bio: Dr. Sara Elzarka is the dean of the International Transport & Logistics Institute- Arab Academy for Science, Technology and Maritime Transport in Alexandria Egypt. She is an Associate Professor of Supply Chain Management who teaches in both undergraduate and postgraduate programs. Dr. Elzarka holds a PhD in Supply Chain Management from the University of Huddersfield in the UK and works as a freelance consultant for the EIB (European Investment Bank) and the EU commission on projects in the field of logistics in the MENA region. She is also a board member of the European Logistics Association ELA. Dr. Elzarka published many empirical research papers on logistics and supply chain skills and competences, supply chain performance, supply chain risk management, sustainability and green supply chain management in international journals and conferences. She was previously the head of the supply chain management department at the College of International Transport & Logistics as well as the Education Chairperson of the Council of Supply Chain Management Professionals – Egypt Roundtable.

5:20 – 5:40 pm (Tuesday, March 9)

**Dr. Deepak L. Waikar**

Managing Partner, EduEnergy, Singapore
Chair, The IEEE Education Society Chapter, Singapore

Be an Edutainer to Mesmerise the Learners

Dr. Deepak L. Waikar started his professional career as an Assistant Director at the National Power Engineers Training Institute in India after his post-graduation from the Institute of Technology, Banaras Hindu University. Since then he has been involved in education, training, research, and management fields for almost three decades in India, Canada, and Singapore. He has been Associate and Adjunct Faculty for the local and overseas Institutes, Academies, Polytechnics, Colleges, and Universities. He is a Managing Partner for EduEnergy, Singapore. He has authored/co-authored book chapters, research articles, and policy papers on power, energy, management, education, and training related topics. He has served on various committees in professional bodies. He is a recipient of IEEE Power Engineering Society Outstanding Power Engineers' Award 2003 and SP-Green Buddy Award 2004. He has delivered invited presentations at international conferences, seminars, and forums. He has conducted several students, faculty, and management development programmes. "Be a Researcher", "Clean & Green Energy", "Trainopreneurship", & "Smart Career Portfolio" are some of the sought-after programmes. Dr. Waikar is a Senior Member of IEEE, Member of IUCEE Foundation, India and a life member of the Institution of Engineers, India. He completed his Ph.D. from the National University of Singapore, M.S. from the University of Saskatchewan, Canada, and PD Advanced Cert in University Teaching from the University of Newcastle, Australia. He obtained PG-DBM from the Nagpur University, M.Tech. from the Banaras Hindu University, and B.E. from the Government Engineering College, Aurangabad in India, respectively. His interests include Sustainable, Clean, and Green Energy Leadership, Re-thinking Teaching, Learning, and Academic Leadership, Re-inventing & Transforming Education, Innovative Project Design & Management, SMART Education Model, Sustainable Development, cricket & chess.

5:40 – 6:00 pm (Tuesday, March 9)

**Dr. Nguyễn Văn Hợp**

Dean, School of Industrial engineering and management
International University - Vietnam National University of HCMC
Ho Chi Minh City, Vietnam

6:00 – 6:20 pm (Tuesday, March 9)

**Assoc. Prof. Korakan PASOMSOUK**

Head, Department of Mechanical Engineering
Faculty of Engineering
National University of Laos
Sokpaluang Campus
Laos

6:20 – 6:40 pm (Tuesday, March 9)

**Dr. V Vasu**

Associate Professor
Dept. of Mechanical Engineering
National Institute of Technology (NIT)
Warangal, India

Learning through community service -based projects

Dr. V. Vasu is graduated in Mechanical Engineering from V R Siddhartha Engineering College, Vijayawada in 1999. Earned his post-graduation in Manufacturing Engineering from BITS, Pilani in 2003, PhD from JNTU, Hyderabad in 2010 and POST-DOC under Erasmus Mundus fellowship from Politecnico Di Milano, Italy, Europe 2014. Presently, he is serving as an Associate Professor at National Institute of Technology, Warangal, India. He has published several papers in international journals and has participated in several conferences and presenting technical papers. He developed online pedagogy course for "Mechatronics" and Systems & Controls under ICT MHRD, India. He has guided 4 PhD works and is currently guiding 3. He was awarded Young Engineer 2010 Award by IE India and Govt. of AP and Outstanding researcher in Nanotechnology Awards 2016. He also member in Siemens Centre of excellence Industry 4.0, NITW.

Session V: Global Engineering Education

Session Chair: Dr. Mohd Khairul Anuar bin Mohd Ariffin, Universiti Putra Malaysia

7:00 – 8:45 pm (Tuesday, March 9) – Room 1

7:00 – 7:20 pm (Tuesday, March 9)

**Bertha Maya Sopha, Ph.D.**

Associate Professor and Former Director of Industrial Engineering

Universitas Gadjah Mada, Indonesia

Chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI)

Industrial Engineering Education in Indonesia

Bertha Maya Sopha is an Associate Professor of Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Indonesia. She was a former head of the Laboratory of Supply Chain Engineering and Logistics in 2013-2015, and a former director of Industrial Engineering Undergraduate Program in 2016-2021. She currently serves as a chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI). She earned Bachelor of Engineering (best graduate) from Universitas Gadjah Mada, a master's degree of Management of Production specialization on Transportation and Logistics (graduate with distinction) from the Department of Industrial Economics and Technology Management, Chalmers University of Technology, Sweden. She holds a PhD from the Industrial Ecology Programme, Norwegian University of Science and Technology (NTNU), Norway. She has maintained a high quality of research throughout her academic career including international scholarly leadership in the areas of supply chain management and logistics, industrial ecology, and complex system modelling. She has been invited as a keynote speaker and given public lectures at symposiums and international conferences in Indonesia and abroad universities. She has also received various academic achievements, awards, and recognitions such as the Best Lecturer runner-up at Universitas Gadjah Mada, best paper awards at several international and national conferences, and research grantee awards from both Indonesia and abroad institutions. She has professional and community engagement activities to contribute significantly to improve the university's reputation through industrial projects and community services. She has conducted research project with SINTEF Industrial Management (Norway), ENOVA SF (Norway), PT Pos Indonesia, Toyota Motor Manufacturing Indonesia, Boeing USA, PT Perusahaan Gas Negara, Regional Disaster Management Agency, and Ministry of Transportation, and Ministry of Industry. She has also been active as journal reviewers in both reputable international journals and national journals. She has also held an intellectual property on Simulasi Logistik Kebencanaan Merapi (SILOKA) (Simulation of Merapi Disaster Logistics).

7:20 – 7:40 pm (Tuesday, March 9)

**Hemlal Bhattarai**

Dean, Research and Industrial Linkages (DRIL)

Lecturer: Department of Electrical Engineering

Royal University of Bhutan

Jigme Namgyel Engineering College

Dewathang, Samdrup Jongkhar, Bhutan

Perspective on Academic, Research and Linkages in the near future

Currently working as Dean Research & Industrial Linkages since 2015. Prior to working as Dean, he has served as Head of Electrical Engineering. He was also Project Manager of for "Promoting energy efficient lighting in Nepal and Bhutan (ELNAB)" which completed in Jan-2019 and the Project Manager & Project Advisory Committee of ongoing projects on "Enhancing Problem Based Learning for South Asian Universities" both of which is funded by Erasmus Project of European Union. He has taught in the Department of Electrical Engineering since 2006 and has mostly been associated with teaching power systems, energy management & auditing, power electronics, renewable energy, high voltage engineering, research methodology and entrepreneurship. Hemlal research area of interests includes power engineering and energy systems with major focus on Renewable Energy and has been associated with many international conferences/publications including IEEE as program committee, keynote speaker and reviewer. He is currently the focal for Thematic Working Group (TWG) on Energy from Bhutan for ICIMOD.

7:40 – 8:00 pm (Tuesday, March 9)

**Prof. Ir. Dr. Mohd Khairul Anuar bin Mohd Ariffin**

Professor of Manufacturing Engineering

Universiti Putra Malaysia

43400 UPM Serdang

Selangor Darul Ehsan, Malaysia

Dr. Mohd Khairul Anuar bin Mohd Ariffin obtained his Degree from University of Northumbria at Newcastle in year 1998. He has completed his Master of Science from Universiti Putra Malaysia in 2001 and received his Ph.D. in Mechanical Engineering from Sheffield University, UK in 2006. He is currently a Professor in Department of Mechanical and Manufacturing Engineering, Faculty of Engineering Universiti Putra Malaysia. He is a professional engineer register under Board of Engineers Malaysia since 2013 and produced almost 200 journal papers.

8:00 - 8:20 pm (Tuesday, March 9)

Syafa Lisaholit, M Chairul Basrun Umanailo

Universitas Iqra Buru

Namlea, 97571, Indonesia

ID 1022 The Effect Of Self-Effect On Student Learning Achievement

8:20 – 8:40 pm (Tuesday, March 9)



Dr. Boon Leing TAN
Guest Professor
Xi'an International University
Singapore

Dr Tan currently lectures at various universities, in the areas of Operations Management and Business Management, where he also supervises dissertation students at UG, PG and Doctoral levels. He is currently a guest professor with Xian International University and consults at Student Services Consultancy (Singapore). He was also Professor of Management at Xian Jiaotong Liverpool University and the Academic Director (Deputy Dean) at PSB Academy, where he served on the Academic Board and as the Chair of the PSB Examination Board, and T&L Committee.

Dr Tan holds a BSc (Hons) Operations Management (2000) and a PhD in Business and Management (2005). His areas of expertise includes Operations Management, Project Management and Strategy Management. His work experience includes teaching responsibilities covering general Business Management subjects including Marketing, HR and OB and IT security subjects.

Boon was Head of Business School at MDIS from 2011 to 2012 where he had oversight on strategic directions and operations of MBS and was also the Singapore programme director for GGSB's highly acclaimed MIB. Prior, Boon served as the founding HoD and Professor of Management at the Department of BEM, Xian Jiaotong Liverpool University from Aug 2007 to 2010. Before XJTLU, Boon has over 6 years of lecturing experience with both large and small groups of undergraduates and postgraduates. He was a contract lecturer in Aston Business School from 2001 and joined Sunderland Business School as senior lecturer in 2005, where he was also the leader of the e-Business and Knowledge Management research team.

Boon publishes regularly in leading academics journals and international conference proceedings. He currently serves on the editorial boards of the Journal of Manufacturing Technology Management, International Journal of Information and Operations Management Education, the Journal of Management and Training for Industries and International Journal of Public Sociology. His research interests are Industry 4.0, servitization, e-business management, technology management supply-chain management, business process re-engineering, and quality management. He also serves/ has served as a reviewer for numerous journals including JMTM, IJBPM and EM.

Session VI: Global Engineering Education Panel

7:00 – 8:45 pm (Tuesday, March 9) – Room 1

Panel Chair



Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation

for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I



Dr. Manuel Woschank
Senior Lecturer, Senior Researcher and Chair of Industrial Logistics
Montanuniversitaet Leoben, Austria
Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia

Manuel Woschank received a diploma degree in industrial management and a master's degree in international supply management from the University of Applied Sciences, FH JOANNEUM, Graz, Austria, and a Ph.D. degree in management sciences with summa cum laude from the University of Latvia, Riga, Latvia. He is currently a Senior Researcher, Senior Lecturer, and the Deputy Head of the Chair of Industrial Logistics at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia. He was a visiting scholar at the Technical University of Kosice (Slovakia), and at the Chiang Mai University (Thailand). His research interests include the areas of logistics system engineering, production planning and control systems, logistics 4.0 concepts and technologies, behavioral decision making, and industrial logistics engineering education.

Panel Speaker II

**Dr. Nidhi M B (Fellow IIIE)**

Associate Professor, Mechanical Engineering Department
Mar Baselios College of Engineering & Technology, (MBCET)-Autonomous
Thiruvananthapuram, Kerala, India
National Executive Council Member ISTE, New Delhi

Prof. Nidhi M B is currently working as Associate Professor in Dept. Mechanical Engineering Dept. of Mar Baselios College of Engineering and Technology, Trivandrum, Kerala. She is also in the capacity of National Executive Council Member of ISTE (Indian Society for Technical education) (2015-2024) and joint Secretary to IIIE (Indian Institution of Industrial Engineers, Kerala chapter) (2011-2012, 2014-2015, 2015-2016, 2019-2021). She has been serving as State Management Committee Member ISTE Kerala section from 2012-2015. Apart from the above responsibilities she has consistently initiated the release of Kerala Section Newsletter for the last 8 years, in the capacity as Newsletter Editor. She received the best faculty advisor award for 2020 on the occasion of 31st ISTE Annual Faculty Convention of Kerala section from Hon.Governor of Kerala on 23 Jan 2021. She has won the National award instituted by IIIE during 58th National convention is IIIE on 22nd OCT 2016, for her substantial contributions in Industrial Engineering and awarded Fellow ship 2019. She has been instrumental in bridging the Industry Academia Gaps, and she is coordinating more 5 inter-disciplinary projects with industry apart from current teaching responsibilities on the interest of the Institution and completed few funded projects. Dr Nidhi MB has been a special invitee to GEDC (Global Engineering Deans Council Summit), Singapore, IEOM to women in Engineering during March 2016, Malaysia. She has been instrumental in initiating ISTE Faculty and Student Chapters in MBCET, lead the chapter under her chairmanship to present stature. Currently she is serving as the Faculty advisor of ISTE-MBCET students Chapter and won the Best student chapter award for the institution from ISTE Kerala section in 2020. Under her leadership the ISTE Chapter has organised many events for the benefit of students and Faculty. The Chapter has won 10 awards within the short span of 8 years. She has delivered many Keynotes addresses and Invited Lectures at State, National and International forums. She has to her credit 40 papers in National, International Journals and Conferences of which 8 papers are in education research. She is also reviewer of journals and conferences in areas relating to Sustainability in Engineering, Supply Chain Management, Engineering & Technology trends in Mechanical Engineering, etc. Her areas of interest include Pedagogy and Training, Outcome Based Education, Changing roles of Industrial Engineering, Design and Engineering, Green Supply Chain Management, Industry 4.0, smart manufacturing systems, Nature inspired algorithms, etc.

She graduated from the SCT College of Engineering in BTech Mechanical Production in the year 2001. She worked in Industry Leela Lace International Ltd, as Industrial Engineer for 3 years. There by developing a passion for Industrial Engineering, she pursued her Master's Degree in Industrial Engineering from CET, Kerala, (2006-2008). Since then she started her career in Engineering Education as lecturer, Sr Lecturer and as Asst. Prof with Saintgits College and Mar Baselios College of Engineering and Technology. She has also won many Best Paper Awards in various forums of International conferences and National Conventions. She is also serving as mentor to other ISTE chapters in Kerala. She earned her doctoral degree from the National Institute of Technology Calicut on Sustainability assessment of supply chain network under carbon trading scheme.

Panel Speaker III**Dr. Erwin Rauch**

Assistant Professor in Manufacturing Technology and Systems
Head of the Smart Mini Factory laboratory for Industry 4.0 application
Free University of Bolzano, Italy

The role of learning factory labs for teaching Industry 4.0

Erwin Rauch is an Assistant Professor in Manufacturing Technology and Systems at Free University of Bolzano, Italy. He received his BSc in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds an MSc in Mechanical Engineering from the Technical University Munich (TUM) and a Master in Business Administration from the TUM Business School. Since 2007, he worked in a Management Consultancy as a Consultant for Lean management. Later he obtained his PhD in Mechanical Engineering at the University of Stuttgart in Germany. Since 2014, he is Assistant Professor at the Free University of Bolzano and in 2017 Visiting Researcher at Worcester Polytechnic Institute (WPI) in Worcester, MA (USA). Further, he is Head of the Smart Mini Factory laboratory for Industry 4.0 application at the Free University of Bolzano. His research interests include industry 4.0, axiomatic design, agile and reconfigurable manufacturing systems as well as optimization in SMEs.

Panel Speaker IV

Submissions Received from Countries and Territories

1. Algeria	16. Ghana	31. Mexico	46. South Korea
2. Australia	17. Greece	32. Morocco	47. Spain
3. Austria	18. India	33. Myanmar	48. Sri Lanka
4. Bangladesh	19. Indonesia	34. Nigeria	49. Sweden
5. Brazil	20. Iran	35. Oman	50. Taiwan
6. Cambodia	21. Iraq	36. Pakistan	51. Thailand
7. Canada	22. Ireland	37. Papua New Guinea	52. Tunisia
8. China	23. Israel	38. Philippines	53. Turkey
9. Colombia	24. Italy	39. Poland	54. UAE
10. Ecuador	25. Japan	40. Portugal	55. UK
11. Egypt	26. Jordan	41. Qatar	56. USA
12. Ethiopia	27. Kuwait	42. Saudi Arabia	57. Uzbekistan
13. Finland	28. Laos	43. Singapore	58. Vietnam
14. France	29. Latvia	44. Slovenia	59. Yemen
15. Germany	30. Malaysia	45. South Africa	60. Zambia

Industry 4.0 and Industry Solutions - Distinguished Speakers

Wednesday, March 10, 2021

Session I: Industry 4.0 (Room - 1)

Session Chair: Paul W Bradley, Caprica International, Singapore

8:00 – 9:20 (Wednesday, March 10)

8:00 – 8:20 am (Wednesday, March 10)



Richard J. Sherman
Senior Fellow, Supply Chain Centre of Excellence
Tata Consultancy Services (TCS)
Austin, Texas, United States

Rich Sherman is an internationally recognized author and thought leader on trends and issues across supply chain management. He currently serves as Senior Fellow, Supply Chain Centre of Excellence, Tata Consultancy Services (TCS). His book *Supply Chain Transformation: Practical Roadmap for Best Practice Results* (Wiley, 2012) has received praise by practitioners, academics, and non-supply chain executives as a great read on business transformation. As a research director, he successfully launched the supply chain advisory services for AMR Research (now Gartner) and led in the development of the SCOR® model, founding the Supply Chain Council, and serving on its Board. Mr. Sherman has served on the working committees for several industry initiatives including DAMA/Quick Response, Efficient Consumer Response (ECR), and Collaborative Planning, Forecasting, and Replenishment (CPFR). Throughout his career, Mr. Sherman has held senior management positions with visionary technology firms such as EXE, Syncra, and Numetrix, and marketing leading corporations such as Microsoft, Information Resources (IRI), Mercer Management Consulting, Digital Equipment Corporation (DEC), and Unisys. He has contributed scores of articles and speaks frequently on supply chain trends and models. Rich received his BA and MA from Notre Dame.

8:20 – 8:40 am (Wednesday, March 10)



Ts. Dr. Fairul Anwar Abu Bakar Phd Engineering Technology (Manufacturing)
Senior Lecturer, Quality Engineering Section / Head of Postgraduate Section
Universiti Kuala Lumpur (UniKL), Malaysian Institute of Industrial Technology (MITEC)
Professional Technologist (Malaysian Board of Engineering Technology, MBOT) PT18050805
Chartered Professional Member (Chartered Quality Institute, CQI, United Kingdom) MCQI 6034604

Despite the role as a Senior Lecturer in Universiti Kuala Lumpur (UniKL) MITEC in Quality Engineering, most of the contributions focused to build the future technologist in Engineering Technology field. Play a position as Industrial Training Coordinator for UniKL-MITEC since 2010 in providing continuous sustainability of university-industry linkages and collaboration. Previous position was Section Head of Quality Engineering Section and currently hold a post as Head of Postgraduate Section at UniKL-MITEC. Expert subjects thought at UniKL-MITEC; Lean Six Sigma (Certified Trainer from Motorola University, Master Black Belt, UniKL), Design of Experiment (DOE), Taguchi Methods (Shin Taguchi – UTM), Statistical Quality Control (SQC/SPC), Quality Tools and Improvement Methods (QC Tools, FMEA etc.) and Innovative and Creative Circles (ICC). Completed PhD in Engineering Technology (Manufacturing), focus on Lean Six Sigma deployment for SME using Technology Acceptance Model (TAM).

Holdings a Master Degree in Technology Management and graduates in Industrial Science (Mathematics) discipline from Universiti Teknologi Malaysia (UTM). Received professional certification from Chartered Quality Institute (CQI), United Kingdom as Certified Quality Practitioner (CQP) and certified Professional Technologist (Ts.) from Malaysian Board of Engineering Technology (MBOT). Besides, he also a member of Malaysian Society for Engineering and Technology (MySET).

With Certified Train the Trainer (TTT) from Malaysian Institute of Management; he managed to developed and successfully conducted the training and consultancy to internal / external organization in the field of QCC / ICC, Lean Office Management, Lean Healthcare and customize teambuilding with interactive hands-on activities / simulations. Successfully accomplished several Lean Six Sigma and QCC/ICC projects at DRB-HICOM Automotive, Faber Group Berhad (UEM Group), Panasonic AV, PSB Decoration (Nusajaya). Appointed as sole consultant by PEMANDU, Prime Minister Department (Public Service Delivery Transformation – PSDT), to roll-out Lean Healthcare & Lean Agile program among all state hospital (under Ministry of Health) throughout Malaysia since 2013 with splendidly applied at 4 pilot hospitals; HSA & HSI, Johor Bahru, HTAR, Klang and Hospital Kuala Lumpur (HKL) and continuous leverage at all state hospitals around Malaysia. Prior to join academic field, he had around 9 years vast experienced in manufacturing industry from multi-national company i.e. Hewlett-Packard, Western Digital, Flextronics and Brother which mostly expertise in quality, production, industrial engineering, maintenance and NPI department.

8:40 – 9:00 am (Wednesday, March 10)



Kar Heng LEE
TBSS Center for Electrical and Electronics Engineering, Singapore
Cong Ty TNHH Cong Nghe va Giam Sat Radar TBSS, Vietnam

Being an Engineerpreneur in Vietnam as a Singaporean

Dr LEE KH is an Engineer turned Entrepreneur, he founded TBSS companies from 2012 in Singapore and started a company in Ho Chi Minh City from 2013. Today, TBSS Radar Technology and Surveillance Company Limited in Ho Chi Minh City has delivered 1 coastal surveillance radar, 9 vessel traffic radars, 2 radar training systems and security and surveillance systems in Vietnam, TeamTBSS had also implemented surveillance-related projects in Cambodia, Myanmar and Pakistan. Lee's company also assists Singaporeans and foreigners to acquire business

licenses, set up and operate their businesses in Vietnam. TBSS also designs, develops and deliver customised professional courses in Radar, EW, Entrepreneurship and Kids Development courses and talks in Asia-Pacific Region.

Dr LEE is certified to teach in Higher Education by the Staff Education and Development Association, UK. He taught Communications Engineering specialization subjects and supervised Final Year Project students with various universities such as the SIM University, University of Newcastle, James Cook University, University of Southern Queensland, RMIT University, Northumbria University and Edith Cowan University undergraduate and graduate programs. Dr LEE had developed Wireless and Optical Communication Systems course materials for the SIM University. He is appointed a Senior Adjunct Lecturer by the Edith Cowan University based in Singapore to ensure smooth running of the Bachelor of Engineering courses in Singapore. LEE is also a Keysight Certified Expert.

Lee had served as a Chairman and Secretary in the Education Chapter, IEEE Singapore Section. Currently, Lee is serving in the board of Vietnamese Association in Singapore as the Senior Advisor for Science and Technology and as an Advisor in the Vietnam Chamber in Singapore. He is a School Advisory Committee member of Henry Park Primary School appointed by the Ministry of Education. Dr Lee is also the Founding President of the Association of Old Crows (an Electronic Warfare Professional Association), Singapore Chapter. Lee graduated from NUS with Master of Engineering and Bachelor of Technology (Hons) degrees. Dr Lee also holds a Master of Science from the University of Sheffield and a Ph.D in Engineering Management.

Dr Lee has published over 50 papers in International conferences and research programs. He had presented papers on Antennas, Electronic Warfare, Radar, Training and Entrepreneurship internationally in Washington DC, Hawaii, Beijing, Chongqing, Maldives, Taiwan, Hong Kong, Bangkok, Philippine, Italy, Switzerland, Indonesia, Malaysia and Singapore. He had also been appointed to Program or Technical Committee in several international conferences including the IEEE TALE.

9:00 – 9:20 am (Wednesday, March 10)



Paul W Bradley
Chairman and CEO
Caprica International
Singapore

Paul W. Bradley has been involved in supply chain management and international business throughout his entrepreneurial career spanning senior leadership positions in global companies, the creation of 5 start-up companies and participating in the successful launch of two IPO's. He has established new business entities in China, South East Asia, India and the United States. Mr. Bradley is the CEO of Caprica International. He previously served as President of Arshiya Limited headquartered in India (publicly traded on the Bombay Stock Exchange), creating the first FTWZ Logistics Parks in the country's history integrated with a private rail network of 19 trains, logistics and SCM services and a technology solutions company. He also served as Managing Director of IDS International (a member of the Li & Fung Group, publicly traded on the Hong Kong Stock Exchange). He is also a CEO Mentor and advises new Tech Ventures in Asia. He currently serves on the Singapore (Asia) Advisory Board of Ecole Hoteliere de Lausanne; Emeritus Council Member of Supply Chain Asia; Strategic Advisor to Gray International; and on the Industry Advisory Board of the S.P. Jain School of Global Management. He is also involved

with new technology ventures and previously served as an Advisory Board Member of the Kairos Society, ASEAN Region; on the Executive Leadership Council of the Thunderbird School of Global Management (ASU); and several other business and government advisory boards. He is a Fellow of the Chartered Institute of Logistics and Transport, London; a Senior Fellow of Supply Chain Asia, Singapore; and a Certified Professional Logistician of CILT.

Mr. Bradley received his MBA Degree in International Management from the Thunderbird, School of Global Management. He was selected by the World Economic Forum as one of the forty "New Asian Leaders" at an award ceremony presented by His Majesty King Abdullah II of Jordan and was selected as "Asian Supply Chain Manager of the Year" by Lloyds FTB Publications. He previously worked in NYK Line, APL, the U.S. Senate and the British House of Commons and has served on several Singapore Government Advisory Committees. He is a frequent speaker at global conferences and universities, has written published articles and has been interviewed by Newsweek, Fox Television, the Economic Times of India, the Business Times of Singapore, Excellency Magazine in the UAE, Supply Chain Vietnam and other podcasts and global media.

Session II: Industry Solutions

Session Chair: Dr. Murphy Choy, SSON Analytics, Singapore

1:00 – 2:40 pm (Wednesday, March 10) – Room 1

1:00 – 1:20 pm (Wednesday, March 10)



Ashwini Sharma
Lean Six Sigma Master Black Belt and Scrum Master
Continuous Improvement Coach
Shell
Singapore

Ashwini Sharma is a seasoned professional in BFSI and Minerals & Resources industries, focusing most of his career in building and leading major transformation initiatives. He has 19 yrs of experience in successfully designing and driving cross-geographical Change programs and delivering Significant bottom-line results in large complex and matrixed organizations. Ashwini's early training in Engineering and Business Administration, combined with his professional training in Lean Six Sigma set him up for his career in leading large scale Transformation and Change

Ashwini has managed to continue to reinvent himself and keeps himself relevant to the needs of the business world. In the 2000's he dove into Six Sigma and then Lean and Lean Sigma to help organizations reduce variation and waste, which is still so prevalent. And most recently he has trained himself as an Agile coach and applied his skillsets in driving Change globally within the Technology Function of BHP; equipping the Digital Workforce with Change capabilities to make the organization truly Agile and focused on customer requirements

Over his career, he has delivered more than \$210 mn in benefits across the firms he has worked for. He has coached and mentored more than 40 of his own staff and more than 300 change professionals to help and support them in achieving their career objectives.

1:20 – 1:40 pm (Wednesday, March 10)



Hirishegan Karuneswaran
Business Analyst
PickMe
Sri Lanka

Hirishegan Karuneswaran an intrapreneur, and a passionate social tech-startup enthusiast who is a graduate in Business Information Systems from the University of Westminster, United Kingdom.

During his course of study, he has co-founded a blockchain-based digital certificate publishing startup, "Verify" which focuses on reducing the carbon footprint to fight against climate change and He supported as a business consultant for Sri Lanka's first BaaS startup Niftron (Pvt) Ltd. He also contributed as a co-chairperson of Sri Lanka's first-ever inter-university startup battle to cultivate the seeds of the startup in the minds of Sri Lankan

undergraduates.

His passion for tech and new business has shoved Hirishegan to publish his first academic paper at the 10th IEOM conference and has delivered inspirational talks as a guest speaker for both local and international tech events. Moreover, Hirishegan is one of the very few students at the Informatics Institute of Technology who holds Prof. Andrew Linn and Dr. Peter Bonfield Student Volunteering Appreciation under the CSR category from the University of Westminster for the year 2017 and he also got shortlisted as one of the national finalists of Global Student Entrepreneur Award 2020, Sri Lanka. His research interests include Digital transformation, Entrepreneurship, Strategic planning, Growth hacking, and Digital businesses.

1:40 – 2:00 pm (Wednesday, March 10)



Dr. Murphy Choy
Director of Operations and Technology
SSON Analytics
Singapore
Certified Advanced Programmer for SAS V9
Certified Basic Programmer for SAS V9
DataShaping Certified SAS Professional

Dr. Murphy Choy, Director of Technology and Operations. Doctorate in Professional Studies (PW), Business Analytics, Middlesex University, London; M.Sc in Finance, University College Dublin & B.Sc Statistics, National University Singapore.

Dr. Murphy is an experienced analytics specialist with extensive experience in risk analytics, marketing analytics, social media and Big Data analytics. He has extensive experience in developing new techniques and models to achieve business objectives in real world application. He is also passionate about lifelong learning and is an active contributor to several international publications.

2:00 – 2:20 pm (Wednesday, March 10)



Mark Tan
Assistant Director
Lean Transformation and Innovation Center (LTIC)
Singapore Institute of Technology
Singapore

Title of Presentation: **Challenges of leading Lean transformation in SMEs (small medium enterprises)**

Mark is based in the Lean Transformation and Innovation Centre (LTIC), Singapore Institute of Technology (SIT) since 2016 and is responsible for delivering training and improvement projects to various industries, from SMEs (small medium enterprises) to MNCs across multiple sectors ranging from engineering, logistics, professional services, F&B and healthcare. He is a certified Black Belt and conducted public and corporate workshops for various process improvement methodologies ranging from Lean, Six Sigma, Design Thinking to Scrum.

In addition to his work with the industries, Mark contributes articles regularly on innovation and productivity to ASME Entrepreneur Digest and participated in roundtable discussions. Mark is also actively involved as guest lecturer with undergraduate engineering students in modules such as Statistical Process Control (SPC) and Project Management.

Mark holds a Master of Engineering in Electrical and Electronic Engineering from Nanyang Technological University (NTU). He started his career in 2001 with semiconductor firm, Micron, specializing in high technology high volume process optimization before branching to transactional service-related improvements with General Electric and Xerox. He had more than 15 years' experience in operational excellence role before joining Singapore Institute of Technology.

2:20 – 2:40 pm (Wednesday, March 10)

**Tan Mei Fang (Ms)**

B.Eng (NUS, Singapore), MBB (MA, USA), PMP (USA), PROSCI (USA), Member of ISSSP (USA)
Six Sigma Master Black Belt
Lecturer, Lean Consultant and Coach
Singapore

SUMMARY Mei Fang is a passionate Master Black Belt with 20 years of experience in the fields of Organizational Development, Management Consultancy and Project Management. As an experienced consultant and trainer, Mei Fang excels at understanding complex operational details, analyzing process efficiencies and driving pragmatic solutions for her clients. She spearheaded multiple Lean healthcare projects and was responsible to provide consultancy, training and facilitation for MOHH and its related clusters and operators to adopt lean design for healthcare facilities ranging from polyclinics, acute hospitals to nursing homes. Her efforts enabled transformative changes resulting in enhanced guidelines for future healthcare facilities. For a Clinical Diagnostics MNC, Mei Fang set up and led the consultancy for a new business area in providing Software-as-a-Service in the digital oncology space for the Asia Pacific region. Her clients included hospitals and clinical laboratories in the region. She was part

of National University Health System overseeing the clinical operations of all public primary care clinics in the western region of Singapore. Mei Fang was invited to speak at various international Conferences, Workshops and Public Agencies to share case studies and applications of Lean and Six Sigma methodologies in Healthcare and Construction sectors.

Session III: Industry 4.0

3:00 – 4:40 pm (Wednesday, March 10) – Room 1

Session Chair: Technologist Dr. Edly Ferdin Ramly, EFR Certification, Malaysia

3:00 – 3:20 pm (Wednesday, March 10)

**Dr. Edly Ferdin Ramly**

Certification Director
EFR Certification
Johor Bahru, Malaysia

Presently Dr. Edly Ramly is Certification Director and Lead Auditor for various certification schemes including ISO/TS16949. Apart from auditing, he is currently Business Excellence Assessor, Exemplar Global Lead Auditor trainers for Quality (ISO9001, Environment (ISO14001) and Safety (ISO45001) management system. Dr. Ramly actively conducting research, consultation and trainings to local and multi-national companies that seek operational improvement and breakthrough. His industrial experience was in the automotive industry. During his stayed with the TRW Automotive, he was tasked with the responsibility of promoting and implementing Lean and Six-Sigma

within the Organization. Due to his extensive exposure in Lean and Six-Sigma Management System, he was invited by Malaysia Productivity Corporation (MPC) and Asia Productivity Organization (APO) to conduct training in the area of Lean and Six-Sigma implementation. Dr. Ramly graduated from University of Bradford, UK with Bachelor Degree in Manufacturing System with Management. He then furthered his studies at Sheffield Hallam University, UK and awarded with a Master Degree of Science in Engineering with Management and Ph.D. from Universiti Tun Hussein Onn, Malaysia.

3:20 – 3:40 pm (Wednesday, March 10)

**Mr. Mohd Zaki Tumijan**

Trainer / Consultant / Auditor

Jan 2019 - Current: Associate Industrial Trainer / Lead Auditor on Quality, Environmental, Occupational Safety & Health Management System

Collaborate and extensively involved assist clients on Integrated Management System and management practices such as Corporate Social Responsibilities and had acquired hands-on experiences in collaboration with EFR Certification, UTM and NMIT in various areas and aspects of managing EOSH in electro-manufacturing, plastic molding, coating and plating, healthcare, construction, oil plantation and various industries:

3:40 – 4:00 pm (Wednesday, March 10)



Dr. Kamarizan Kidam
Lecturer
UTM Skudai, Johor Bahru, Malaysia

Dr. Kamarizan Kidam is a director for Unbox Resources and lecturer at the Department of Chemical Engineering, Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia (UTM) since 2004. He received his PhD from Plant Design Research Group, Aalto University School of Chemical Technology, Finland in December 2012. He started his academic career in UTM since 2001. Dr. Kamarizan is noted as an innovative, energetic, versatile lecturer, and currently active in developing a new methodology for accident prevention through design, enhancement of process safety and safer chemical plant design. He also involved in developing new methodology for inherently safer process equipment design and user-friendly system. He has published more than 20 journals and conference papers on process safety and design.

Previously, Dr. Kamarizan is an occupational safety and health practitioner and a competent person as Safety and Health Officer under OSHA 1994. He has more than 7 years working experience mainly as SHE Engineer in petrochemical processing facilities and expose to latest legislation and standard. His expertise covers risk management, loss prevention and safe by design. In addition, he has experienced in development, management, implementation and administration on all matters related to occupational safety, health and environment. He has been involved in the training and consulting of OSHA and have conducted more than 30 in-house and public training programs. Currently, Dr. Kamarizan is a secretary for the Faculty's OSHE.

4:00 – 4:20 pm (Wednesday, March 10)



Mr. Hood Atan
Exergy Management Consultant
IATF Auditor for Afnor Certification, France

Mr. Hood Atan graduated from University of Technology Malaysia with Bachelor in Mechanical Engineering. He then furthered his studies at University of Technology Malaysia for Master in Engineering-Industrial Engineering and Doctor of Philosophy: Industrial Engineering and Operations Management. Hood has been actively involved in the field of Continual Improvement activities since the beginning of his tertiary education. Having worked as a Quality Engineer, Quality Manager, Quality and Environmental Management Representative for numerous years from bottom, middle and to top management, Mr Hood brings along with him a wealth of regional knowledge and experience to share. With his more than 16 years' experience in Quality and Business management system, he has conducted various training and workshop in the area of workplace improvement, QS-9000 and 7 packs standard requirements, ISO/TS 16949 standard, variation and waste reduction, and practical problem-solving techniques including statistical tools. His industrial experience was in the automotive industry. During his stayed with the TRW Automotive and previous company, he was tasked with the responsibility of promoting and implementing VDA 6.3, QS-9000, IATF 16949, ISO14001 ISO 13485, EN16001, ISO 50001, OSHAS 18001 & ISO 45001 management system and Lean & Six Sigma within the Organization. Besides, he also responsible for supplier audit either local or oversea such as Vietnam, Thailand, Singapore, Indonesia, China and India. Presently Mr. Hood Atan is a full time trainer, auditor and management consultant in the fields of Quality, Health & Safety, Energy and Environmental Management system.

4:20 – 4:40 pm (Wednesday, March 10)



Prasanna Balasubramanian
Program Management
Largest Bigdata Consulting Organization in ASIA
Singapore

Prasanna carries close to 17 years of work experience and played a multifaceted role in the areas of Innovation, Digital Transformation, Robotics process automation, Process Re-engineering, Program Management, Key account management, Quality & Consulting, at the leadership level with Country-level management responsibilities. He has worked for multiple industries like Automobile, Banking, IS&IT, BPO, Global financial shared service centers with a proven track record of cross-pollinating the best practices across industries and quick learner in understanding the nuances and success factor in a shorter span of time. He has worked on the direct roles of Philips, Accenture, Infosys, Renault Nissan, and UBS, to name the few Global fortune 500 companies and for their clients managing the stakeholders across the geographies of APAC, US & Europe.

4:40 – 5:00 pm (Wednesday, March 10)



Kamil Mizgier
Group Manager
Model Development in the area of Enterprise Risk Analytics
BNY Mellon Poland
Zürich, Switzerland

The Journey to Economic Supply Chain Risk Capital

Kamil Mizgier works as Group Manager, Model Development in the area of Enterprise Risk Analytics at BNY Mellon, where he spearheads the development of risk models for informed decision making. Previously he was a Senior Quantitative Analyst at Credit Suisse, where he led a risk methodology development team. Until 2016, he was a Senior Researcher in Supply Chain Management at ETH Zurich, where he worked on research projects with firms like SAS Institute and Zurich Insurance. Prior to this role, he gained professional experience as a risk modeling and analytics specialist at UBS and business analyst at Aduno Group. He published more than 20 peer reviewed and practitioner articles on supply chain and operational risk management, supply chain networks and economic risk capital. He obtained a MSc degree in Applied Physics from the Warsaw University of Technology and a PhD in Supply Chain Management from the Department of Management, Technology and Economics at ETH Zurich.

Session IV: Industry 4.0 Panel

"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises"

5:00 am – 6:45 pm (Wednesday, March 10) - Room 1

Panel Chair



Ts. Dr. Mehran Doulat

Associate Professor

MBA Review Committee/Coordinator

Xiamen University Malaysia (XMUM)

Director of Centre for Operational Excellence Research (COER)

Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master's Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr. Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a "TRADE" Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic-industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

Panel Speaker I



Dr. Nigel Grigg

Professor of Quality Systems

Head of Department of Operations and Engineering Innovation (OEI)

School of Engineering and Advanced Technology

Massey University, Palmerston North, New Zealand

Associate Editors of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing

Dr. Nigel is the Professor of Quality Systems, and leads and the Department of Operations and Engineering Innovation (OEI) within the School of Engineering and Advanced Technology at Massey University, Palmerston North, New Zealand. Dr. Nigel undertakes teaching, research and consultancy across the disciplines of industrial design and innovation, operations management, supply chain management, quality systems, and information technology applications to operations. Dr. Nigel's particular specialism is quality systems, including business process improvement, statistical quality control, six sigma, lean, Business Excellence, service quality, research methods and structural equation modelling. He applies mathematical and statistical methods within operations management, particularly to the management and control of product, service quality and supply chain systems. His recent research projects include developing a performance measurement framework for national health care, applying lean thinking within a horticulture setting, and examining the role of national culture as a mediating influence on 'standardised' management and improvement frameworks such as ISO 9001, Six Sigma, and lean. Dr. Nigel served as Associate Editor of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing since 2014.

Panel Speaker II



Dr. Matthew Pepper

Senior Lecturer

School of Management, Operations and Marketing

University of Wollongong (UOW), New South Wales, Australia.

Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management. and International Journal of Information and Operations Management Education

Dr. Matthew pepper is currently a Senior Lecturer within the School of Business, Faculty of Business and Law, at the University of Wollongong Australia. Matt sits on the editorial advisory boards of a number of academic journals, including the Journal of Manufacturing Technology Management, International Journal of Lean Six Sigma and the International Journal of Information and Operations Management Education. Within the faculty of Business and Law, his teaching responsibilities include supply chain management and strategy at both undergraduate and postgraduate levels. Matt's core research interests lie in the application of systems thinking to supply chain disruption, performance management and continuous improvement in the public sector. Most recently, his work has focused on engaging with public sector organizations to develop appropriate performance measurement and management strategies. Matt has currently supervises a number of industry based candidates in these areas of interest and has been an external examiner for a number of PhD theses.

Panel Speaker III



Dr. Azmawani Abd Rahman
 Professor
 School of Business and Economics
 Universiti Putra Malaysia (UPM)
 President of Research and Education at the Malaysia Franchise Association (MFA)
 Former Director of Corporate Strategy and Communication Office UPM
 Former Deputy Director of Research Management Centre UPM

Dr. Azmawani Abd Rahman is a Professor at the School of Business and Economics Universiti Putra Malaysia (UPM). She holds a Bachelor of Science in Finance from the University of South Alabama (United States) and a Ph.D. in Operations and Technology Management from Aston University, United Kingdom. Previously, she served as Director of Corporate Strategy and Communication Office UPM, where she was responsible for various university main functions such as public and media relation, university rankings and ratings, and university strategic directions and key performances. Prior to that, she was a Deputy Director at UPM Research Management Centre, Head of

Department and Deputy Dean at the Faculty of Economics and Management, UPM. Azmawani actively collaborates with the industry through her involvement as an advisor, assessor, consultant, and trainer. She is currently a president for the Research and Education committee at the Malaysia Franchise Association (MFA). She has made more than 50 appearances in the mainstream media (newspaper, television, radio) through her writing and comments. She published in more than 150 articles in Scopus and ISI cited journals and books. Azmawani was appointed as an official case writer for Malaysia Productivity Corporation Business Excellence Award and Chief Minister Industry Excellence Award.

Panel Speaker IV



Dr. Mat Naim Abdullah
 Associate Professor
 Faculty of Built Environment and Surveying
 Deputy Director, UTM Centre for Quality and Risk Management
 Universiti Teknologi Malaysia (UTM)

Dr Naim's holds a BSc. in Quantity Surveying from University of Glasgow Caledonian, United Kingdom. He has a Master of Engineering in Construction and PhD in Facilities Management, both from Universiti Teknologi Malaysia. His specialisation is in the area of Project Management, Facilities Management and Quality Management System. He is also a certified trainer for Safety Course and a Certified Quality Auditor. Prior to joining Universiti Teknologi Malaysia he was with the construction industry for 20 years working in various fields and positions such as quantity surveyor for consulting firm and contract manager for local and international construction companies. He had also served as a Manager at the Construction Industry Development Board Malaysia. He also had his own business in safety and quality in construction between 2001 to 2005. In 2006 he joined Universiti Teknologi Malaysia and

currently an Associate Professor at the Department of Real Estate, Faculty of Built Environment and Surveying. He is also seconded as a Deputy Director at the UTM Centre for Quality and Risk Management.

Session V: Industry Solutions

7:00 pm – 8:45 pm (Wednesday, March 10) - Room 1

Session Chair: Dr. Saso Krstovski, Ford Motor Company, Michigan, USA

7:00 – 7:20 pm (Wednesday, March 10) - Room 1



Steven Sibrel
 Senior Supplier Quality Manager
 Harman International
 Novi, Michigan, USA
 Professional Development Chair and Past Chair – ASQ Greater Detroit

Steve Sibrel is a business process improvement trainer, coach and auditor with over 35 years of experience in the business and manufacturing world. He is currently working as Senior Supplier Quality Manager at Harman International, a manufacturer of audio and infotainment systems for consumer, professional, and automotive industries, with well-known brands such as JBL, Lexicon, Crown, Infinity, Mark Levinson, Becker and Harman-Kardon. Previously he held a number of engineering and management positions in diverse industries at Applied

Materials (Semiconductor), NEC (Telecommunications) and Texas Instruments (Military). He has conducted over 200 supplier audits in North America, Europe, and Asia and is a Lead Auditor for ISO/TS16949, ISO9001, ISO13485, ISO17025, and 21CFR820. He has been the Chair for Professional Development for the ASQ Detroit section since 2008. He received the Distinguished Service Award in 2008 and the Leadership Award in 2013 from ASQ. Current ASQ Certifications held are Six Sigma Black Belt, Quality Engineer, Quality Inspector, Quality Auditor, and Manager of Quality/ Organizational Excellence. He is an adjunct faculty member at Macomb Community College. Steve has a BSEE degree from Rose Hulman Institute of Technology and an MSEE degree from Southern Methodist University.

7:20 – 7:40 pm (Wednesday, March 10) - Room 1

Obaidul Gani, MSIE, P.E, CSSBB, CLE
 Director of Operations & Manufacturing
 Lacerta Therapeutics
 Gainesville, Florida, United States



7:40 – 8:00 pm (Wednesday, March 10) - Room 1



Ts. Dr. Mehran Doulat

Associate Professor

MBA Review Committee/Coordinator

Xiamen University Malaysia (XMUM)

Director of Centre for Operational Excellence Research (COER)

Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Title: ***Sustainable Supply Chain Management (SSCM) Practices: Insights from Malaysian Non-Manufacturing Industries***

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master's Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a "TRADE" Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic-industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

8:00 – 8:20 pm (Wednesday, March 10) - Room 1



Eng. Kenn Wong, BEE, PgDip, MBA

Regional Sales Manager, Asia Pacific Region

ESW Vision GmbH, Malaysia

Mr. Kenn Wong is currently attached to ESW Vision GmbH a French medical device company producing dry eye management devices as the area sales manager for Asia Pacific region. Mr. Wong started his carrier as a service engineer in the analytical chemistry industry and then moving into the healthcare industry dealing with sleep medicine and surgical devices as an application specialist and product trainer. As part of career advancement, Mr. Wong was offered a marketing and commercial role with an optical company covering the Malaysian market. Later, he moved up the corporate ladder covering the commercial activities regionally. Mr. Wong holds a Bachelor degree in Electrical Engineering (BEE) from the University of Herfordshire, UK, and a Postgraduate Diploma (PgDip) in Biomedical Engineering from Keele University located in Staffordshire, UK. He is currently conducting a research on Sustainable Supply Chain Management (SSCM) amongst Malaysian Non-Manufacturing Industries as part of

his MBA research project.

8:20 – 8:40 pm (Wednesday, March 10) - Room 1



Atif Baig, MBA

Research Associate

The Centre for Organisational Excellence Research (COER)

Massey University

Palmerston North, New Zealand

Title: ***An exploration of the organisational excellence architecture required to support an award-winning business excellence journey***

Mr. Atif Baig is a Research Associate at the Centre for Organisational Excellence Research (COER), Massey University, New Zealand. Before joining Massey University. Atif worked for the banking industry for over 15 years with leading financial institutions including Citigroup and Barclays Bank PLC, where he was involved in different organisational performance improvement initiatives. With his industry experience and learnings, Atif is keen to help organisations to improve their business productivity and achieve sustainable value for their shareholders. Atif holds a postgraduate (MBA) degree from the University of Warwick, UK. He is currently doing his PhD and investigating Business Excellence (BE) models from an implementation viewpoint.

8:40 – 9:00 pm (Wednesday, March 10) - Room 1



Dr. Saso Krstovski, MBB
 Lean Manufacturing Coach /Six Sigma Master Black Belt
 Van Dyke Transmission Plant
 Ford Motor Company, Michigan, USA

Dr. Saso Krstovski works for Ford Motor Company – Van Dyke Transmission Plant as a Lean Manufacturing Coach and Six-Sigma Master Black Belt. With over twenty years of service with Ford Motor Company, Dr. Krstovski has held a multitude of engineering assignments, which includes time working as a Test Engineer, Launch Test Engineer, and Electrical Control Engineer. During his time with Ford Motor Company, Dr. Krstovski has worked in several plant environments and skill teams such as Dearborn Tool & Die Plant, Information Technology, and has held front-line supervision roles managing hourly UAW-Ford production employees. This exposure to new work

concepts within Ford has allowed Dr. Krstovski to amass a holistic approach to engineering. As such, Dr. Krstovski has gained an extensive understanding of the Six-Sigma methodologies. As a detail oriented and data-driven engineer, Dr. Krstovski is an invaluable contributor to Ford Motor Company. He is highly distinguished and skilled with problem identification and resolution to avoid time and cost expenditures. Dr. Krstovski recently joined Lawrence Technological University as an Adjunct Professor and is currently teaching in the Engineering Department. Dr. Krstovski's research interests lie in the area of System Optimization. He continues to collaborate actively with researchers at several universities. Dr. Krstovski provides guidance globally to doctoral candidates on dissertation direction. He graduated from Lawrence Technological University with a Doctorate of Engineering in Manufacturing Systems (DEMS). In addition, to his doctorate degree, Dr. Krstovski has a Masters in Electrical Computer Controlled Systems and a Bachelor's of Science in Electrical Engineering from Wayne State University. Dr. Krstovski has authored several publications and scientific articles on various engineering topics.

Diversity and Inclusion Panel sponsored by Ford Motor Company

9:00 - 10:30 pm (Wednesday, March 10) - Room 1

Panel Chair:



Professor Cecilia Nembou
 President and Vice-Chancellor (Retired)
 Divine Word University
 Papua New Guinea

Professor Cecilia Nembou was the President and Vice Chancellor of the Divine Word University (DWU) in Papua New Guinea, and Professor of Higher Education Leadership and Management. She is based in Port Moresby and supervises the leadership and management functions of the DWU Port Moresby campus as well as the rest of DWU system across 5 campuses. She holds a BSc in Mathematics from the University of Papua Guinea (1975), MSc in Operational Research from the University of Sussex (UK, 1978) and PhD in Operations Research from the University of New South Wales (Sydney, Australia, 1992). She has held various academic and senior management positions at the University of PNG, University of Wollongong in Dubai and at the Divine Word University over a period spanning 40 years. Professor Nembou's research interests include, systems thinking, strategic planning, leadership and management, and analytics in higher education.

Professor Nembou is a regular member of INFORMS and member of the IEOM Technical Committee. She has served on various committees and Councils of Universities as well as on Boards of State Statutory organizations, and Boards of commercial and non-government organizations in Papua New Guinea. She is a former Head of Mathematics Department, Executive Dean of the School of Natural and Physical Sciences, Pro Vice Chancellor Planning and Development and Acting Vice Chancellor at the University of Papua New Guinea; Academic Registrar and Senior Lecturer at the University of Wollongong in Dubai, and Deputy President of the Divine Word University. She commenced her new role as President and Vice Chancellor of DWU on 20 January 2016.

Panel Speaker I



Dr. NG Szu Hu
 Associate Professor and Acting Head
 Department of Industrial Systems Engineering and Management
 National University of Singapore
 Singapore

Szu-Hui Ng received the PhD degree from the Department of Industrial and Operations Engineering at the University Michigan. She is currently an associate professor and acting head in the Department of Industrial and Systems Engineering at the National University of Singapore. Her research interests include quality engineering, design of experiments, and simulation. She has published a number of papers in these areas.

Panel Speaker Iii

**Dr. Hannelie Nel**

Senior Lecturer, Postgraduate School of Engineering Management
Faculty of Engineering and the Built Environment
University of Johannesburg
South Africa

Dr Hannelie Nel is an Academic in the Postgraduate School of Engineering Management at the University of Johannesburg. She holds a Doctorate in Engineering Management, a Master of Science Degree in Industrial Engineering and a Bachelor's Degree in chemical Engineering. She has twenty years' experience in both industry and academia and her work entails business and education strategy development; the design, implementation and costing of business and quality management systems; training and education; business research systems; process improvement; and gender advancement in engineering.

Panel Speaker III**Dr. Ho Hwi Chie, M.Sc.**

Dean, Binus Aso School of Engineering (BASE)
Bina Nusantara University (Binus)
Binus Aso School of Engineering
BASE Campus, Jl. Alam Sutera Boulevard No. 1
Tangerang, Banten 15325, Indonesia

Hwi Chie Ho is Dean of Binus School of Engineering and Professor in Industrial Engineering at Bina Nusantara University, and has been teaching and publishing researches associated with ergonomics, quality, and industrial psychology. She is a member of the Institute of Industrial and Systems Engineers (IISE), Human Factors and Ergonomics Society (HFES), and American Psychology Association (APA). She has also served as the faculty advisor of the newly established IISE BINUS University Student Chapter # 716 that has earned Gold Award in three consecutive years since the establishment.

Panel Speaker IV**Jihong Yan, Ph.D.**

Professor in Industrial Engineering
Deputy Dean of School of Mechatronics Engineering
Head of intelligent Manufacturing Scientific Research Team
Harbin Institute of Technology
Harbin, China

Jihong Yan is a Professor (since 2005) in Industrial Engineering at Harbin Institute of Technology (HIT), she is also the deputy dean of School of Mechatronics Engineering and head of intelligent manufacturing scientific research team at HIT. She received her PhD from Harbin Institute of Technology. Then she joined Tsinghua University, the University of Wisconsin, and Pennsylvania State University as a postdoctoral researcher. Dr. Yan is the director of National High-end Equipment Manufacturing Virtual and Simulation Experiment Teaching Center, head of Research Oriented Teaching Innovation Team for High-end Equipment Manufacturing of the Ministry of Industry and Information Technology of China, vice chairman of Production System Special Committee of Chinese Mechanical Engineering Society, and chairman of Industrial Engineering Professional Committee of the Mechanical Engineering Society of Heilongjiang Province. Her main area of research is industrial big data, sustainable manufacturing, intelligent logistics and advanced maintenance of machinery. As a PI, Dr. Yan has worked on and accomplished

15 projects in intelligent manufacturing and sustainability related areas, funded by the NSF of China (NSFC), NSF-NSFC joint-project funding, National key R&D plan project funding, National High-tech project funding, National "863" project funding, EU EPSRC project funding, High-tech funding from industries, and so on. She has authored and co-authored over 100 research papers and published 3 books, two papers were ranked ESI high cited articles. Currently there are 17 professors and engineers with her research team, the team dedicates to theoretical research and system implementation in the fields of intelligent operation optimization theory and methods of manufacturing systems, manufacturing IoT technologies and devices, and equipment health monitoring, etc.

Panel Speaker V**Hajj Flemings**

CEO/Founder
Rebrand Cities
Birmingham, Michigan, United States

Hajj Flemings was one of eight entrepreneurs selected for CNN's Black in America 4: The New Promised Land: Silicon Valley documentary with Soledad O'Brien. During the documentary, he began to understand the real meaning of the term 'meritocracy.' He recognized that lack of access in the technology space created a permanent underclass in communities of color. That experience changed the course of his life. Hajj is the founder of Brand Camp® University, an educational platform preparing people for the future of work. In 2017 he launched Rebrand Cities, a global civic design initiative with the audacious goal of getting 10,000 businesses online and eradicating the digital divide. He has worked with clients including Cadillac, Walt Disney, AT&T, WordPress.com, Pitney Bowes,

Pfizer, the Detroit Lions, and the U.S. Department of Defense. He has had the privilege of being an invited speaker at Harvard University, Iowa State University, University of Michigan—Ross School of Business, Davidson College, among others; as well as being featured in the Wall Street Journal, TechCrunch, Mashable, and CNN Tech Money on the subjects of startups, digital technology, and branding. Hajj Flemings earned a Bachelor of Science degree in Mechanical Engineering from Michigan Technological University and a Master's degree in Business Administration from Lawrence Technological University. In his free time, Hajj enjoys training for his next half marathon, as well as spending time with his wife and daughter in the Detroit metro area.

**Professor Donald M. Reimer**

Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

IEOM Global Business Management Education

DISTINGUISHED SPEAKERS

Thursday (March 11, 2021)

Session I: Global Business Management Education

Session Chair: Dr. Surya Prakash, BML Munjal University, Gurgaon, Haryana, India

8:00 – 9:20 am (Thursday, March 11) – Room 1

8:00 – 8:20 (Thursday)

Dr. Le Thi Huynh Anh

Faculty of Project Management

The University of Danang, University of Science and Technology
Vietnam

Le Thi Huynh Anh is a lecturer of Undergraduate Program in Division of Industrial Management in Faculty of Project Management at The University of Danang, University of Science and Technology (DUT), Vietnam. Ms. Anh received her B.S in Industrial Engineering and Management at The University of Danang, University of Science and Technology and Master in Industrial Management at Nation Taiwan University of Science and Technology (NTUST), Taiwan. She has taught courses in Supply Chain Management, Industrial Maintenance Management and Operations Research for engineers. She has experiences in studying and working on industrial projects such as Sustainable Supply Chain for Unilever Limited Company and Quality Assurance for NutiFood Nutrition Food Joint Stock Company and Ha Giang Phuoc Tuong Mechanical Company in Vietnam. She has received the best student award when she was in undergraduate program. Her research interests include Optimization, Supply Chain Management, Logistics, Innovation, Scheduling, Renewable Energy, and Manufacturing.

8:20 – 8:40 (Thursday)

Dr. Vincent F. Yu

Department of Industrial Management

National Taiwan University of Science and Technology
Taipei 10607, Taiwan

Vincent F. Yu received his Ph.D. degree in industrial and operations engineering from the University of Michigan, Ann Arbor. He is currently a Professor and the Chair of Industrial Management with the National Taiwan University Science and Technology. He has published articles in Applied Mathematical Modelling, Applied Soft Computing, Computers and Industrial Engineering, Computers and Operations Research, European Journal of Operational Research, Industrial Marketing Management, International Journal of Production Research, Journal of Cleaner Production, Journal of Intelligent Manufacturing, and Omega. His current research interests include operations research, logistics management, soft computing, and artificial intelligence.

8:40 – 9:00 (Thursday)

Dr. Hsiu-I Ting

Department of Information and Finance Management

National Taipei University of Technology
Taipei 10608, Taiwan

Hsiu-I Ting received her Ph.D degree in business administration from the National Chengchi University, Taiwan. She is currently a Professor of Information and Finance Management with the National Taipei University of Technology, Taiwan. She has published papers in Asia-Pacific Journal of Finance Studies, Emerging Markets Review, International Research Journal of Finance and Economics, Journal of Business Research, Journal of Economics and Finance, Journal of Wealth Management, Managerial and Decision Economics, Management Decision, Review of Pacific Basin Financial Markets and Policies, and Service Industries Journal. Her research interests include corporate finance, corporate governance, and multi-criteria decision-making.

9:00 – 9:20 (Thursday)



Dr. Surya Prakash

Ph.D. (Supply Chain Design)
School of Engineering and Technology
BML Munjal University,
(A HERO group initiative)
Gurgaon, Haryana, India

Dr. Surya Prakash is Ph.D. (Supply Chain Design) from Malaviya National Institute of Technology, Jaipur, India. Dr. Prakash did Master of Engineering in Manufacturing Systems Engineering from Birla Institute of Technology and Science, Pilani (BITS-Pilani) (India), a top-rated technical university of India. Presently, Dr. Prakash is Assistant Professor, School of Engineering and Technology, Mechanical Engineering Department, BML Munjal University (started by the Hero Group India), Gurgaon, India. Dr. Prakash has rich experience of teaching, research and industry as he also worked for Bharat Forge Ltd. and JBM India.

Dr. Surya is prolific researchers with 20+ quality research articles, 5+ Book Chapters, 10+ Conference papers and coinventor in many technology patents in Industry 4.0 and Oil and Gas sector. He is handling consultancy projects and training program for industries in QMS and Oil and Gas domain. He has won many awards for his quality research and teaching including two times in BML Munjal University for best faculty for teaching and research. His areas of research interest are supply chain management, risk management, Industry 4.0, logistics, artificial intelligence in operations management, sustainability in operations management. He has special interest in robotic tool development for oil and gas pipelines. He has published a number of research articles in reputed international journals such as Annals of Operations Research, European Journal of Operation Research, Supply Chain Management: An International Journal, Journal of Modelling in Management, Benchmarking, International Journal of Advanced Operations Management, etc. He is on Editorial Advisory Board for QOR Newsletter.

Session II: Supply Chain and Logistics Education

Session Chair: Prof. Shekar Babu, AMRITA University, Bangalore, India

1:00 – 2:40 pm (Thursday, March 11) – Room 1

1:00 – 1:20 (Thursday)



Aalok Kumar, Ph.D.
Assistant Professor
Indian Institute of Management Visakhapatnam
Andhra Pradesh, India

Aalok Kumar is currently working as Assistant Professor, Production and Operations Management area, IIM Visakhapatnam, Andhra Pradesh, India. He has been awarded PhD in Operations Management from Department of Management Studies, Indian Institute of Technology (IIT) Roorkee, India and MTech. in Industrial Management from IIT(BHU) Varanasi with Gold Medal. His PhD work also received the "Excellence in Doctoral Research Award" from IIT Roorkee.

During his PhD, he has been also awarded with prestigious Newton-Bhabha fellowship (jointly awarded by British Council UK and DST India) at the University of Sussex, UK, and Queen Elizabeth Visiting Fellowship at the University of Regina, Canada (awarded by Government of Canada). His research interests are in multimodal logistics planning, data-driven logistics operations in Industry 4.0 era, electric vehicles-based freight mobility, and resilient logistics system. His research work has appeared in top journals of Operations and Management Science, such as Transportation Research Part A: Policy and Practice, Transport Policy, Journal of Cleaner Production, and Journal of Enterprise Information Management, among others. He has also participated in EURO Winter School at the University of Padova, Italy, and presented paper in various conferences such as POMS USA, EURO Europe, DSI USA, SOM India, GLOGIFT India, and IEOM Society USA.

1:20 – 1:40 (Thursday)



Rajendra Baraiya
Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

Title: *Retailer Strategies amid COVID19 pandemic with Hygiene Quality Enhancement Efforts*

Rajendra Baraiya is a research scholar in the Operations Management and Quantitative Techniques department at the Indian Institute of Management (IIM) Indore, India. He has been awarded M.E. in Production Engineering from Thapar Institute of Engineering and Technology, Patiala, India, and B.E. in Production Engineering from Government Engineering College, Bhavnagar, India. His research interests are Supply Chain Management, Supply

Chain Coordination, Omni-Channel Retailing, Inventory Management, and Logistics. His research papers are published in reputed journals, and he has presented his research work at various National and International conferences. He has received the best paper awards in DC 2019 - MNIT Jaipur, ICORDS 2019 - IIM Visakhapatnam, and DOCMAD 2020 - IRMA Anand. He is professionally affiliated with many societies like IEOM, POMS, DSI, The OR Society, EuROMA, ASCM, IEEE, and WCTRS.

1:40 – 2:00 (Thursday)



Dr. Muhammad Khan
Lecturer in Management Sciences, Timergara Campus
Abdul Wali Khan University
Mardan, KPK, Pakistan

Dr. Muhammad Khan received the M.S. degree in international business from American College Dublin, Ireland, and the Ph.D. degree in international business from Yeungnam University, South Korea, in August 2019. He is currently working as a Lecturer of marketing with the Department of Management Sciences, Abdul Wali Khan University Mardan, Pakistan. He is also a Ph.D. Supervisor nominated by the Higher Education Commission (HEC) of Pakistan. He has coauthored over 28 research articles, in leading international journals, including IEEE Access, Sustainability, Journal of Humanitarian Logistics and Supply Chain Management, and the International Journal of Supply Chain Management. His research interests include humanitarian logistics, humanitarian supply chain, and

supply chain and logistics. He is on editorial and reviewer boards in different journals of supply chain and business administration.

2:00 – 2:20 (Thursday)



Dr. Shams Rahman
 Professor of Operations and Supply Chain Management
 School of Business IT and Logistics
 Deputy Head of School, Research and Innovation.
 RMIT University
 Melbourne, Victoria, Australia

Dr. Shams Rahman is a Professor of Operations and Supply Chain Management at the School of Business IT and Logistics, RMIT University. He is also the Deputy Head of School, Research and Innovation. Professor Rahman, a former British Commonwealth scholar, has worked with several universities in Australia, United Kingdom, and Thailand. In Australia he worked for the University of Western Australia, The University of Sydney, prior to joining

RMIT University. He also held visiting fellowship at the Virginia Tech, US and University of Exeter, UK and currently, an International research scholar to Shanghai University of International Business and Economics, Shanghai, China. Professor Rahman is an expert in the field of operations and supply chain logistics and he is frequently called upon to make presentations for various professional bodies and senior executives on issues such as supply chain sustainability, talent management in logistics, lean six-sigma and quality management, reverse logistics, and theory of constraints.

Professor Rahman is on the editorial board of fourteen international journals. He is an Associate Editor of the International Journal of Information Systems and Supply Chain Management, a Regional Editor of the International Journal of Logistics and Supply Chain Management Systems, and a Member of the Editorial Advisory Board of the Advances in Information Systems and Supply Chain Management (Book Series). He is also the foundation member of the International Advisory Committee of the Asia-Pacific Federation of Logistics & Supply Chain Systems. Professor Shams Rahman has published over 175 research papers which include articles in international journals, book chapters, and referred papers in international conference proceedings and currently, writing a case book on Reverse Supply Chain. He has successfully supervised 10 PhD theses in the field of operations, quality and supply chain management and currently supervising 9 PhD students.

2:00 – 2:40 (Thursday)



Prof. Shekar Babu
 Founding Head, AMRITA School of Business, Bangalore
 Adjunct Faculty, SUNY, Buffalo, USA
 Research & Consulting
 AMRITA University
 Bangalore, India

Dr. Shekar Babu is the Founding Head, Department of Management, Bangalore Campus, AMRITA Vishwa Vidyapeetham University. Dr. Shekar Babu holds a Bachelor of Engineering degree in Electronics and Communications from Bangalore University and a Master of Science degree in Electrical and Computer Science from California State University, Los Angeles and a Doctoral Degree in Strategic Management from Amrita

University. He is a Management Consultant with over 25 years of experience in working with Price Waterhouse and Hewlett-Packard Co. His research areas are Corporate Social Responsibility (CSR), Corporate Governance (CG), Strategy and Social Development. He has taught courses in Marketing, Leadership, Management Consulting and Business Ethics.

Session III: Global Business Management Education

Session Chair: Professor Paul Jones, Swansea University, Wales, UK

3:00 – 4:40 pm (Thursday, March 11) – Room 1

3:00 – 3:20 (Thursday)



Sagit Kedem-Yemini, Ph.D.
 Lecturer, Logistics Department
 Industrial Engineering and Management
 Sapir Academic College
 Israel

Sagit Kedem-Yemini is an Industrial Engineer, proficient in information systems and currently holding two lecturing positions: a tenured lecturer position at Sapir Academic College (Logistics Department) and an adjunct lecturer at Ben Gurion University (both in IE&M and Faculty of Business and Management). Her teaching portfolio is broad, focusing on Enterprise Systems implementation (SAP and Oracle Applications) and derivatives of ERP data collection – from Business Analytics to Process Mining. Additionally, she has extensive experience in academic curriculum development, is head of her department's teaching committee and serves as liaison officer to the

graduation projects unit. Her research interests include Process Mining and its practical applications, ERP relates issues and DSS development. Since 2015 serves as member of JITCAR Editorial Review Board and since 2019 serves as GJCIE International Scientific Committee Member. Prior her to academic career, Dr. Kedem-Yemini worked at a global Clean-Room Fab Build-Up Construction Management Company with major clients (such as Intel, Tower Semiconductors, and Teva Pharmaceuticals), where she held various positions, including Logistics Manager, Scheduling Manager and CIO (Chief Information Officer).

3:20 – 3:40 (Thursday)



Ms. Marwa Abdel Tawab Mahmoud
Tourism Studies Department
Faculty of Tourism & Hotels
Fayoum University
Faiyum, Egypt

Entrepreneurship and Tourism: A Case Study of Egypt

Marwa Abdeltawab Mahomud (Marwa Elomda) currently works as lecture at the department of tourism studies, faculty of tourism and hotel, Fayoum University. She earned BA in tourism studies from faculty of tourism and hotels, Fayoum University, 2012. Master in 2016 at thesis topic "The role of the impact of Arab tourism investment on the volume of inter-Arab tourism to Egypt.", PhD in 2019 at thesis topic: "The role of entrepreneurship in the development of Egyptian tourism: studying factors and challenges" from Faculty of Tourism and Hotels, Fayoum University.

Marwa has won several awards including the Fayoum university award for the best PhD in the literary sector on the Thirteenth Science Day 2020, in addition, obtaining the Fayoum University Award for excellence in scientific publishing in the Thirteenth Science Day 2020.

Marwa is coordinator of the violence against women unit at the faculty of tourism and hotels, Fayoum university, since the 2019 academic year, member of the team of preparing and writing competitive projects in the faculty of tourism and hotels, Fayoum university, chairman of the committee for supporting activities at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university, member of the tourism awareness team at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university, and deputy administrator of graduate affairs unit from 2019-2020 at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university

She has successfully participated in several conferences; Participation in organizing the 9th International Conference on Tourism and Hospitality, Marsa Alam, Faculty of Tourism and Hotels - Fayoum University, in cooperation with the Italian University of Salento, 2016; Participation in organizing a professional academic dialogue forum for higher tourism education in light of quality assurance and accreditation standards, Faculty of Tourism and Hotels, Fayoum University, December 2017, in addition, Participation in organizing the 10th International Conference on Tourism and Hospitality, Sharm El-Sheikh, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2017, Participation in organizing the eleventh international conference for tourism and hospitality, Luxor, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2018 and Participation in a workshop entitled (Entrepreneurship and Tourism Education: Evidence from Egypt), Moreover, Participating in preparing and organizing the community service forum activities for tourism and hotels colleges (Together for a Better Society) and the Training and Employment Forum held at the Mercier Sphinx Hotel (Haram) 27-4-2019, and Participation in organizing the Twelfth International Conference on Tourism and Hospitality, Fayoum, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2020.

She attended a workshop for training on the SCIVAL program presented by the digital libraries unit of the supreme council of universities, June 2019, women-up conference entitled "boosting the untapped potential of entrepreneurship in Egypt via women empowerment" 20-3-2019, a course on designing questionnaires by (google forms) organized by the agency for high studies at the faculty of tourism and hotels, Fayoum university - July 2020, SPSS statistical analysis course organized by the agency for high studies at the faculty of tourism and hotels, Fayoum university - July 2020, course of external audit protocols organized by the quality assurance unit for faculty members and the faculty assisting body September 20, 2020, strategic planning course organized, the self-assessment course, the course description of programs and courses by the quality assurance unit for faculty members and the faculty assisting body in coordination with the national authority for quality assurance and accreditation (naqaae)

Her research interests are in Tourism Entrepreneurship, Business Management, Feasibility studies and financing, Management of small and medium enterprises, Tourism investment, Human Resource Development, and Accounting in the tourism and hotel industry.

3:40 – 4:00 (Thursday)



Ar. Sana Malik
PhD Scholar, Universiti Sains Malaysia, Penang
Assistant Professor, School of Architecture and Planning
University of Management & Technology
Lahore-54770, Pakistan

Title of Talk: Construction Management of Commercial Housing Development: Dynamics of Real Estate Sector

Sana Malik is a professional architect and designer. She is working as Assistant Professor in School of Architecture & Planning, University of Management & Technology, Lahore, Pakistan. Currently, she is a doctoral candidate at the Universiti Sains Malaysia at Penang, Malaysia. Sana researches Housing, Urban/Rural Sociology and

Architectural design. Her academic training and eight years of teaching and research experience have prepared her to be an effective researcher and instructor in different courses including housing design, research methodology, architectural studies, built environment and development studies. She has also attended a certified course in teaching and research through US Department of State-funded program titled 'Collaboration for Faculty Excellence in Teaching and Research (CFETR)' at George Mason University in 2016.

She has wide international academic and social experience with a motivation for transferring the knowledge and understanding to the young individuals. She also worked as a team leader in the launch of a new degree program at the postgraduate level endeavoured for the development of the student exchange program with a Malaysian University to make this program an extraordinary success. She is invited frequently as a guest speaker for research workshops and an experienced qualitative researcher. She is also currently editorial board member of two international journals of social sciences. As policy expert and housing researcher, she has also served as short-term consultant for World Bank Projects.

4:00 – 4:20 (Thursday)



Dr. Nadir Ali Kolachi
Dean, College of Business Administration
University of Fujairah, UAE

Remote Leadership & Team work in the new normal

Dr. Nadir is a Dean at the College of Business Administration, University of Fujairah, UAE. He has an MBA, MS, PhD and a Post Doctorate (OD & HRD) from North Carolina A&T State University, USA. He is a certified Case writing trainer and has participated in Case workshops at Harvard Business School, Ivy Business School & The Case Centre, UK. He is also a certified digital training specialist by The Blackboard Academy and Arizona State University. He has represented Universities in the top global forums as Keynote Speaker, Faculty trainer, Session Chair & Conference Presenter at USA, UK, Canada, Brazil, Poland, Italy, Lithuania, Portugal, Spain, Germany, France, Slovenia, Turkey, Austria, Serbia, Romania, Greece, Japan and many other countries. He has written various corporate/teaching case studies and research papers in the areas of Management, HRD, OD and Leadership. He has also conducted many FDPs (Faculty Development Programs) for business schools around the world. He is also an academic member of international organizations like AOM, NACRA and The Case Association, USA.

4:20 – 4:40 (Thursday)



Professor Paul Jones
Head of Business Department and Professor of Entrepreneurship and Innovation
Head of REF UoA17 2021 Business Submission, School of Management
Swansea University, Bay Campus, Fabian Way
Swansea, SA1 8EN, Wales, UK

Editor in Chief: International Journal of Entrepreneurial Behavior and Research
Associate Editor: International Journal of Management Education
Book Series Editor: Contemporary Issues in Entrepreneurship Research

Paul Jones is Professor of Entrepreneurship and Innovation at the School of Management, Swansea University. Professor Jones is Editor-in-Chief on the International Journal of Entrepreneurial Behaviour and Research journal ranked and as an Associate Editor on the International Journal of Management Education. He is also series editor of the Contemporary Issues in Entrepreneurship Research Entrepreneurial book series published by Emerald Publishing. He has also Guest Edited 20 special issues/sections in academic journals including Journal of Small Business and Enterprise Development, Information Technology and People, International Journal of Entrepreneurship and Innovation and Strategic Change to date. Professor Jones is a prolific entrepreneurial researcher and has authored 99 refereed journal papers in journals such as the British Journal of Management, International Small Business Journal, Entrepreneurship and Regional Development and Journal of Small Business Management. In addition, he has authored 12 edited books and 31 book chapters and sections with 350 plus research outputs in total in his career to date. His research predominantly explores entrepreneurial behaviour and small business management. His recent work has explored entrepreneurial ecosystems and the Entrepreneurial University. He has extensive experience of developing innovative entrepreneurial curriculum and has taught the subject throughout Europe, Africa and East Asia. Professor Jones has also extensive experience as above a lead and co-investigator on a range of Entrepreneurial projects of over £1.5 million in value exploring entrepreneurial ecosystems and supporting students start-ups.

Session IV: Global Supply Chain and Logistics Education

Session Chair: Dr. Sujeet Singh, Indian Institute of Management Jammu, India

5:00 – 6:30 pm (Thursday, March 11) – Room 1

5:00 pm (Thursday, March 11)



Dr. Rajeev Agrawal
Associate Professor, Mechanical Engineering Department
Associate Dean (Research)
Malaviya National Institute of Technology Jaipur
Jaipur, Rajasthan, India

Disruptive technologies in supply chain for promoting sustainability

Dr. Rajeev Agrawal is presently working as an Associate Professor in Department of Mechanical Engineering MNIT, Jaipur. Dr. Rajeev Agrawal is having more than 20 years of teaching and research Experience. He is Fellow of The Institution of Engineer's (IEI), India. He is currently working in the domain of Sustainable, Smart manufacturing and Supply chain Management. His research and teaching interests are in Lean Six Sigma and Operations and planning control. Demonstrating Research capabilities in terms of research papers published/presented (Including CIRP Annals, IEEE Explore Proceeding, Springer, SAGE, Taylor and Francis, Emerald and Inderscience Publishers). He has been serving as an Editor for the Journal of Manufacturing Technology & Research (An International Journal). He is an Editorial Board of the International Journal of Business and Systems Research (IJBSR) (Inderscience Publishers). He is actively involved in bringing industry orientation to the engineering education system in India working with several industries, statutory bodies and other R&D organizations. One of the objectives of his current research is to address convert quickly for the production of new product by providing customized flexibility and can be improved, upgraded and reconfigured in response to fluctuating demands in MSME.

5:20 pm (Thursday, March 11)



Dr. Ibrahim Cil
Professor, Department of Industrial Engineering
Sakarya University
Sakarya, Turkey

Ibrahim Cil is a Professor of Department of Industrial Engineering at the Sakarya University. He holds a B.S. from Istanbul Technical University, and a M.S. from the Yildiz Technical University, and a Ph.D. in Industrial Engineering from Istanbul Technical University. His teaching and research specialties are in the fields of Decision Support Systems, Decision Sciences, Multi Criteria Decision Making, data science and analysis, Machine Learning, Artificial Intelligence, Supply Chain and Logistics, Manufacturing Strategies, Lean Manufacturing, Lean Six Sigma, Facility Planning and Layout at industry and academic levels. Prof. Cil has published numerous papers, which have Decision Support Systems, Expert Systems with Applications, Robotics and Computer-Integrated Manufacturing, International Journal of Computer Integrated Manufacturing, Int J Adv Manuf Technol, International Journal of

Industrial Engineering - Theory Applications and Practice, The Engineering Economist. Prof. Cil has attended several international conferences in Turkey, US, Japan, England, Netherlands, Germany, France and Greek. Prof. Cil also holds Editorial Membership of several international journals.

5:40 pm (Thursday, March 11)



Dr. Sujeet Singh
Assistant Professor and Chairperson (Research)
Indian Institute of Management Jammu, India

Title: Multi-objective optimization and an application in a pharmaceutical supply chain

Bio: Dr Sujeet Kumar Singh is currently working as an Assistant Professor in Operations & Supply Chain area and as Chairperson (Research) at Indian Institute of Management (IIM) Jammu. He completed his Ph.D in Operations Research (Mathematics) from Indian Institute of Technology (IIT) Roorkee, subsequently he had worked as a Postdoctoral Research Fellow in National University of Singapore for 3 years. Dr Singh has worked with several optimization problems including polynomial optimization, multi-objective optimization, fuzzy optimization, Fractional programming, vehicle routing problem and transportation problem and supply chain optimization. He has published

several journal papers in reputed journals including International journal of production research, Annals of operations research, Applied mathematical modelling, International journal of fuzzy systems etc. He is also a member of International society of global optimization; and is/was editorial board member of Modern management forum and American journal of operations management and information systems. He also served as a reviewer in several reputed journals such as in Annals of Operations Research, IEEE Transactions on Fuzzy Systems, Computer and Industrial Engineering, International Journal of Fuzzy Systems (Springer), Journal of Intelligent and Fuzzy Systems, IEEE Transactions on Systems, Man and Cybernetics: Systems, International Journal of Machine Learning and Cybernetics, Information Sciences, IJOR, IJSAEM, IJFSA, etc

6:00 pm (Thursday, March 11)



Dr. Rajesh Kr Singh
Professor (Operations and SCM)
Management Development Institute, Gurgaon
Gurgaon, Haryana, India
Associate Editor-International Journal of Consumer Studies (ABDC-"A") and Journal of Global Business and Competitiveness

Dr. Rajesh Kr Singh is Professor in Operations Management Area at Management Development Institute (MDI), Gurgaon, India. His areas of interest include Supply chain management, Industry 4.0, Circular Economy. Currently he is serving as Associate Editor to International Journal of Consumer Studies (Wiley) and International Journal of Global Business and Competitiveness (Springer). He is also on the Editorial Board of Journal of Supply Chain

Management Systems and Vision-The Journal of Business Perspective. He has also worked as Guest Editor for special issues of Resources, Conservation and Recycling, Sustainable Production and Consumption, Competitiveness Review, Journal of Modelling in Management, Administrative Sciences, Global Journal of Operations and Strategic Sourcing etc. He has published research papers in reputed top category international/national journals and conferences. He has published papers in journals such as Resources, Conservation and Recycling, Journal of Cleaner Production, Production planning and Control, Annals of Operations Research, International Journal of Production Research, Applied Soft Computing, Clean Technologies and Environmental Policy, Industrial Management and Data Systems, Singapore Management Review, International Journal of Productivity and Performance Management, Benchmarking: An International Journal, Journal of Modelling in Management, Competitiveness Review: An International Business Journal.

Session V: Global Supply Chain and Logistics Education

Session Chair: Dr. Rajesh Kr Singh, Management Development Institute, Gurgaon, Haryana, India

6:30 – 8:00 pm (Thursday, March 11) – Room 1

6:30 pm (Thursday, March 11)



Dr. Gunjan Soni
Assistant Professor
Malaviya National Institute of Technology Jaipur
Jaipur, Rajasthan, India

IoT applications in Logistics

Gunjan Soni did his B.E. from University of Rajasthan, M.Tech from IIT, Delhi and PhD. From Birla Institute of Technology and Science, Pilani in 2012. He is presently working as an Assistant Professor with Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India. He has over 15 years teaching experience at under graduate and graduate levels. His areas of research interest are Predictive maintenance and Digital technology applications in supply chain management. He has published more than 80 papers in peer reviewed journals including IEEE Transactions on Engineering Management, Production Planning and Control, Supply Chain Management: An International Journal, Annals of Operations Research, Computers and Industrial Engineering, International Journal of Logistics Research and Applications etc. He is guest editor of special issues in journals like International Journal of Logistics Management and International Journal of Intelligent Enterprise.

6:50 pm (Thursday, March 11)



Prof. Atour Taghipour
Professor of Operations & Supply Chain Management
Normandy University
Le Havre, Normandy, France

Atour TAGHIPOUR is a professor and the head of an international management master program at Normandy University in France. He holds an HDR in management from Normandy University and a PhD in Industrial Engineering from the Polytechnic School of Montreal in Canada. He received two masters' degrees, one in Management, Logistics & Strategy and other in Industrial Engineering. He has more than ten years of experience as a manager in automobile industries. He has published different books and many research papers in international journals. His areas of research are supply chain and operations management.

7:10 pm (Thursday, March 11)



Dr. Tarvo Niine
Associated Professor of Supply Chain Management
Tallinn University of Technology
Tallinn, Estonia

Tarvo Niine is a senior lecturer at Department of Business administration in the School of Business and Governance of TalTech in Tallinn, Estonia. TalTech is one of three major public universities in Estonia, housing more than 10K students. TalTech is quite international with more than 2000 students from 100 countries. Recently, TalTech School of Business and Governance achieved its first "EFMD accredited" badge. Tarvo's teaching topics are inventory and supply chain management. He is serving as a programme head of business administration. His research themes include logistics competences and future of smart urban mobility.

7:30 pm (Thursday, March 11)

Panel Sessions

Panel 1 - Women in Industry and Academia (WIIA) Panel

4:00 - 5:45 pm (Sunday, March 7), 2021 – Room 2

Panel Chair



Dr. Tay Huay Ling
Senior Lecturer
School of Business
Singapore University of Social Sciences

Huay Ling is a Senior lecturer in the School of Business at the Singapore University of Social Sciences. She holds a Ph.D. degree in Business and Economics (Operations Management) from the University of Melbourne, Australia. Before the PhD, she received a MSc in Industrial Engineering from Georgia Institute of Technology, a MSc in Logistics and Supply Chain Management from National University of Singapore and a BEng (Hon) in Chemical Engineering from the National University of Singapore. She teaches courses on operations management and lean six sigma for supply chains, as well as executive training courses. Her research interests include lean six sigma process improvements, services operations, healthcare operations as well as humanitarian logistics. Prior to becoming an academic, she has worked in areas relating supply network analysis, healthcare operations and business process improvements. Besides her academic commitments, she serves as a pro-bono consultant to charity and non-profit organizations, mainly focused on operations improvements through process streamlining and

workflow redesigns. She had served as an external program reviewer for the Diploma in International Business at SIM Global Education from 2018-2019 and an institution expert in the World Skill Singapore Competition 2020, freight-forwarding skills segment.

She has published and presented a number of papers on operations management and process improvements in logistics, healthcare, community care and higher education settings using lean six sigma and performance management in humanitarian logistics and supply chains. Huay Ling has won the best paper with strong managerial implications award in the EDSI Venice 2018 conference and best doctoral student paper award in the DSI Baltimore 2013 conference. She has also spoken and served as a panelist for the Healthcare Forum 2018 on "Healthcare Improvement and Innovation in Southeast Asia" jointly organized by the Monash Business Schools, Monash University in Malaysia and Australia.

In her pursuit for teaching and facilitating active learning, Huay Ling has developed a keen interest in doing research in the scholarship of teaching and learning. She has written and presented several conference papers on teaching and learning in higher education. She was invited to facilitate a workshop on the use of interactive game approach for teaching Lean Six Sigma in the 2019 International Conference on Education, Psychology, and Social Sciences at the Tokyo University of Science. She is also a visiting fellow for teaching and applied research development at Chongqing City Management College, Chongqing, China.

Panel Speaker I



Dr. Cheng Ling Tan
Associate Professor
Graduate School of Business
Universiti Sains Malaysia
Penang, Malaysia

Dr. Cheng Ling Tan is an Associate Professor in the Graduate School of Business at Universiti Sains Malaysia. She is also a Deputy Dean in Research, Innovation and Industry-Community Engagement. Dr Tan is appointed as an International Advisor of Daffodil International University, and Adjunct Associate Professor at Multimedia University Malaysia. She is also sitting on the board of The Human Research Ethics Committee of USM (JEPeM). She lectures on Operations and Service management core subject at the MBA level, and Applied Business Research: Quantitative and Qualitative Method as the fundamental course at PhD level. She supervises MBA, DBA, and PhD students in the field of her expertise. Her current research interests are accelerated innovation, knowledge management, lean management, operations and service management, and supply chain management. She has been the Principal Investigator for various grants at the university, national and industry levels. She serves several international journals as the reviewer. Besides, she has been invited as the external examiner for PhD and DBA theses at both national and international level. Dr Tan has published more than 100 articles in academic journals. Before joining academia in 2009, Dr Tan spent many years in industries, holding various executive and managerial positions.

Panel Speaker II



Dr. June Tay
Head of Digital Media Programme
School of Science and Technology
Singapore University of Social Sciences (SUSS)
Singapore

Dr. June Tay is the Head of Digital Media Programme at School of Science and Technology in Singapore University of Social Sciences (SUSS). Prior to joining SUSS, June had worked for government agency and taught ICT and Electronics courses for several universities. After her PhD, June joined British Telecommunications (BT) in the UK as a research scientist. During her career with BT, she had contributed to the Internet Standardisation in Internet Engineering Task Force (IETF), produced several publications and 6 granted patents in the fields of computer networks and security. Dr. June Tay designed the SUSS' Digital Media Programme to meet the needs for content creation across various industries. She participates keenly in technical research and industry discussions. She is keen to bridge the gaps in enterprises' approaches with sound solutions.

Panel Speaker III



Ms. Sim Bee Hia
CEO
Food from the Heart
Singapore

Sim Bee Hia has strong experience in non-profit and government organisations. Prior to joining Food from the Heart, she has spent 13 years with Singapore Hokkien Huay Kuan as its Secretary-General. Her career spans positions including the inaugural General Manager of the Singapore Chinese Orchestra and Assistant Director HQ at the People's Association. An ardent believer in leading through collaboration, Ms Sim brings along her aptitude to convene diverse groups of people from the public and private sectors to support a worthy cause.

After work hours, Ms Sim continues to give her time in community service. For her dedication, she was conferred the Public Service Star (BBM) in 2019 and the Public Service Medal (PBM) in 2010 by the President of Singapore. She also gives back to her alma mater and is currently a member of the joint school management committee for Chung Cheng High School (Main), Chung Cheng High School (Yishun), and Nanyang Junior College.

These diverse community interactions keep her engaged with the changes in the social sector while driving Food from the Heart's strategic directions into the future, inspiring everyone to deliver the greatest impact for the community in need of hope and nourishment.

Panel Speaker IV



FANG Eu-Lin
PwC Singapore
Partner, Sustainability & Climate Change Leader

Eu-Lin leads the Sustainability & Climate Change practice where she helps clients strategise, implement, report and obtain assurance across a range of climate change and sustainability issues. This includes but not limited to in the areas of carbon measurement, decarbonisation and net zero pathways, climate risk assessments, Sustainability Development Goals prioritisation and green and sustainable finance. She has worked in London and Singapore and served clients across financial services, government, real estate, marine, oil and gas, consumer, resources and telecommunications. Her experiences are across advisory, audit, governance and risk management. Eu-Lin is a Singapore and Australian Chartered Accountant, is an alumnus of Harvard Business School and holds a degree in Accounting and Finance from the University of New South Wales, Sydney. She is concurrently completing her Masters in Public Administration at the Harvard Kennedy School focused on Climate and Sustainability subjects.

Eu-Lin serves on not-for-profit boards where she is a board member and Audit & Risk Committee Chairman of a healthcare related board and an international school. She is also the board member of an Institute of Higher Learning and the Deputy Chairman of its business school. She also serves with the People's Association.

Panel 2 - Supply Chain and Logistics Panel

2:00 - 3:45 pm (Monday, March 8) - Room 2

Panel Chair



Dr. Mark Goh
Director of Industry Research
The Logistics Institute - Singapore
Professor, Department of Decision Sciences, School of Business
National University of Singapore (NUS)
Singapore

A former Colombo Plan Scholar, Prof. Goh holds a Ph.D. from the University of Adelaide. In the National University of Singapore, he holds the appointments of Director (Industry Research) at the Logistics Institute-Asia Pacific, a joint venture with Georgia Tech, USA, Principal Researcher at the Centre for Transportation Research, and was a Program Director of the Penn-State NUS Logistics Management Program. He also used to be Director of Supply Chain Solutions for Asia/Middle East with APL Logistics, crafting logistics engineering solutions for major MNCs

(Dell, Nike, Lenovo, VW, BMW, Roche, BBraun) in this part of the world. He was on the board of Rigelsoft, a reverse logistics company. He is also a Professor of Management at the University of South Australia

Prof. Goh was a Board Member of the Chartered Institute of Transport (Singapore), past Chairman of the Academic Board of Examiners for the Singapore Institute of Purchasing and Materials Management, member of the Advisory Committee of the Transportation Resource Centre (NUS) and a past Vice President of the Operations Research Society of Singapore, Associate Senior Fellow of the Institute of South East Asian Studies. His other professional affiliations include membership of INFORMS, and the Academy of International Business. His biography appears in Who's Who in Asia and the Pacific Nations, Who's Who in the World, and Outstanding People of the 20th Century. He was a member of the Global Advisory Council (GAC) on Logistics and Supply Chain with the World Economic Forum.

He has been involved in executive training for various key organisations in Singapore, for example, PSA Corp., MIS, SIPMM, PSB, J&J, Siemens Nixdorf, CIT, CAAS, Fuji-Xerox AP, Applied Biosystems, Danzas, DHL, Samsung, SembCorp Logistics, Exel, CEI, Bax Global, IBM, PwC Logistics, Sime Darby, Rockwell Automation, Bank of China, PT SMART, and Mindef. Prof. Goh has also acted as a consultant to organisations both in Singapore and overseas, e.g. Lucent Technologies, Pentax Schweitzer, Trans-Link Express, Perkins Parts, Singapore Post, NCB, Unilever East Asia Pacific, MSAS, TDB, Hewlett-Packard Far East, Siemens Nixdorf, APO, Confectionery Transformation, Danzas-AEI, Bossard Asia Pacific, BBraun AP, Pasmenco, Mindef, Cleanaway (China), IE Singapore, ADB, Knight Frank, Rhodia, World Bank, APEC Secretariat, and Fuji Xerox Singapore. He has led projects for companies such as Dell, Asia Pac Breweries, Roche, PSA, IBM, DFS, ERIA, CAAS, Vale, Save the Children, and EDB.

He has held appointments as a visiting Professor in Business Logistics Strategy at Chulalongkorn University, Commonwealth Fellow to the UK, Citibank International Fellow to the US, visiting research fellow at UMIST, visiting scholar at Beijing University, visiting professor at Melbourne University, Universiti Sains Malaysia, Sun Yat-Sen University, Kaohsiung, King Mongkut University of Technology Thonburi, and professor at the University of South Australia. He is currently on the editorial boards of the Journal of Supply Chain Management, Q3 Quarterly, Journal for Inventory Research, Paradigm, Value Chain Management, International Journal of Procurement Management, and Advances in Management Research, Euro Journal of Purchasing and Supply Management, International Journal of Logistics Management, and has served as an associate editor for the Asia Pacific Journal of Operational Research.

His current research interest is on buyer-seller relationships, performance measurement, and supply chain strategy. With over 300 technical papers in internationally refereed journals and conferences, some of his recent articles on supply chain management have appeared in the Journal of Purchasing and Materials Management, Industrial Marketing Management, European Journal of Purchasing and Supply Chain Management, IIE Transactions, Naval Research Logistics, Physical Distribution and Logistics Management, Production and Operations Management, EJOR, Supply Chain Management Journal, Industrial Organisations, Journal of Global Optimization, Journal of Asian Business, SIAM Journal of Optimization, Transportation Research Parts A & E, MIS Quarterly Executive, JOTA, International Journal of Production Research, and Logistics Information Management.

Panel Speaker I



Nyoman Pujawan, Ph.D, CSCP
 Professor of Supply Chain Engineering
 Department of Industrial Engineering
 Sepuluh Nopember Institute of Technology
 Kampus ITS Sukolilo Surabaya 60111
 INDONESIA

Nyoman Pujawan is Professor of Supply Chain Engineering at the Department of Industrial Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, Indonesia. He is currently the President of the Indonesian Supply Chain and Logistics Institute (ISLI). He received a Bachelor degree in Industrial Engineering from ITS, Indonesia, Master of Engineering in Industrial Engineering from Asian Institute of Technology (AIT) Bangkok, Thailand, and PhD in Management Science from Lancaster University, UK. He also holds Certified Supply Chain

Professional (CSCP) from APICS (USA). He was a Lecturer in Operations Management in Manchester Business School, The University of Manchester, UK in 2003 – 2004. His papers have appeared in many international journals including the European Journal of Operational Research, International Journal of Production Economics, International Journal of Production Research, Production Planning and Control, International Journal of Physical Distribution and Logistics Management, Supply Chain Management: An International Journal, International Journal of Logistics Research and Applications, Business Process Management Journal, among others. He is a Board Executive Member of the Asia Pacific Industrial Engineering and Management Systems Society (APIEMS) and the International Federation of Logistics and SCM Systems (IFLS). Professor Pujawan worked in industry before moving to the academia. While his academic background is very strong, he is equally well experienced in handling industry problems. He is an active consultant for various supply chain and logistics related industry problems (has involved in over 40 consulting projects). He is a frequent invited speaker for both academic as well as industry forum, nationally as well as internationally.

Panel Speaker II



Ferry Jie, PhD
 Associate Professor of Supply Chain and Logistics Management
 Edith Cowan University (ECU)
 Joondalup, WA 6027
 Australia

Ferry Jie is the Associate Professor in Supply Chain and Logistics Management, in the School of Business and Law. Ferry has graduated his doctorate study from The University of Sydney in 2008. His PhD thesis is Supply Chain Analysis in the Australian Beef Industry. Previously, he was a Senior Lecturer and taking a program coordinator role in Logistics and Supply Chain Management (LSCM) at RMIT University. He was managing and coordinating the undergraduate program in LSCM at RMIT from 2015 to 2016.

Associate Professor Ferry Jie has maintained a high quality of research throughout his academic career including international scholarly leadership in the areas of supply chain management and logistics, including being invited to be keynote speaker and to give public lectures at symposiums and international conferences in Indonesia, Malaysia, Vietnam, China, UK and Australia. From 2015 to now, published more than 60 refereed journal articles—including 28 articles in Q1 and 12 articles in Q2, and 18 refereed conference papers. Furthermore, Dr. Jie has received research grants/awards adding up to over \$1.6 million between 2010 and 2020.

Areas of Expertise

Supply chain and logistics management including Sustainability Supply Chain Management
 Operations/production management;
 Quantitative management/management science;
 Quality management; Lean Six Sigma;
 Strategic management; and
 Project management

Panel Speaker III

Panel 3- Global Engineering Education Panel

9:00 - 10:30 pm (Tuesday, March 9) - Room 1

Panel Chair

**Professor Donald M. Reimer**

Director of Membership and Chapter Development – IEOM Society
 President, The Small Business Strategy Group, Detroit, Michigan, USA
 Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
 Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for

engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I

**Dr. Manuel Woschank**

Senior Lecturer, Senior Researcher and Chair of Industrial Logistics
 Montanuniversitaet Leoben, Austria
 Adjunct Associate Professor at the Faculty of Business, Management and Economics at the
 University of Latvia

Manuel Woschank received a diploma degree in industrial management and a master's degree in international supply management from the University of Applied Sciences, FH JOANNEUM, Graz, Austria, and a Ph.D. degree in management sciences with summa cum laude from the University of Latvia, Riga, Latvia. He is currently a Senior Researcher, Senior Lecturer, and the Deputy Head of the Chair of Industrial Logistics at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management and Economics at the

University of Latvia. He was a visiting scholar at the Technical University of Kosice (Slovakia), and at the Chiang Mai University (Thailand). His research interests include the areas of logistics system engineering, production planning and control systems, logistics 4.0 concepts and technologies, behavioral decision making, and industrial logistics engineering education.

Panel Speaker II

**Dr. Nidhi M B, Fellow IIIE**

Associate Professor, Mechanical Engineering Department
 Mar Baselios College of Engineering & Technology, (MBCET)-Autonomous
 Thiruvananthapuram, Kerala, India
 National Executive Council Member ISTE, New Delhi

Prof. Nidhi M B is currently working as Associate Professor in Dept. Mechanical Engineering Dept. of Mar Baselios College of Engineering and Technology, Trivandrum, Kerala. She is also in the capacity of National Executive Council Member of ISTE (Indian Society for Technical education) (2015-2024) and joint Secretary to IIIE (Indian Institution of Industrial Engineers, Kerala chapter) (2011-2012, 2014-2015, 2015-2016, 2019-2021). She has been serving as State Management Committee Member ISTE Kerala section from 2012-2015. Apart from the above

responsibilities she has consistently initiated the release of Kerala Section Newsletter for the last 8 years, in the capacity as Newsletter Editor. She received the best faculty advisor award for 2020 on the occasion of 31st ISTE Annual Faculty Convention of Kerala section from Hon.Governor of Kerala on 23 Jan 2021. She has won the National award instituted by IIIE during 58th National convention is IIIE on 22nd OCT 2016, for her substantial contributions in Industrial Engineering and awarded Fellow ship 2019. She has been instrumental in bridging the Industry Academia Gaps, and she is coordinating more 5 inter-disciplinary projects with industry apart from current teaching responsibilities on the interest of the Institution and completed few funded projects. Dr Nidhi MB has been a special invitee to GEDC (Global Engineering Deans Council Summit), Singapore, IEOM to women in Engineering during March 2016, Malaysia. She has been instrumental in initiating ISTE Faculty and Student Chapters in MBCET, lead the chapter under her chairmanship to present stature. Currently she is serving as the Faculty advisor of ISTE-MBCET students Chapter and won the Best student chapter award for the institution from ISTE Kerala section in 2020. Under her leadership the ISTE Chapter has organised many events for the benefit of students and Faculty. The Chapter has won 10 awards within the short span of 8 years. She has delivered many Keynotes addresses and Invited Lectures at State, National and International forums. She has to her credit 40 papers in National, International Journals and Conferences of which 8 papers are in education research. She is also reviewer of journals and conferences in areas relating to Sustainability in Engineering, Supply Chain Management, Engineering & Technology trends in Mechanical Engineering, etc. Her areas of interest include Pedagogy and Training, Outcome Based Education, Changing roles of Industrial Engineering, Design and Engineering, Green Supply Chain Management, Industry 4.0, smart manufacturing systems, Nature inspired algorithms, etc.

She graduated from the SCT College of Engineering in BTech Mechanical Production in the year 2001. She worked in Industry Leela Lace International Ltd, as Industrial Engineer for 3 years. There by developing a passion for Industrial Engineering, she pursued her Master's Degree in Industrial Engineering from CET, Kerala, (2006-2008). Since then she started her career in Engineering Education as lecturer, Sr Lecturer and as Asst. Prof with Saintgits College and Mar Baselios College of Engineering and Technology. She has also won many Best Paper Awards in various forums of International conferences and National Conventions. She is also serving as mentor to other ISTE chapters in Kerala. She earned her doctoral degree from the National Institute of Technology Calicut on Sustainability assessment of supply chain network under carbon trading scheme.

Panel Speaker III

**Dr. Erwin Rauch**

Assistant Professor in Manufacturing Technology and Systems
Head of the Smart Mini Factory laboratory for Industry 4.0 application
Free University of Bolzano, Italy

The role of learning factory labs for teaching Industry 4.0

Erwin Rauch is an Assistant Professor in Manufacturing Technology and Systems at Free University of Bolzano, Italy. He received his BSc in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds an MSc in Mechanical Engineering from the Technical University Munich (TUM) and a Master in Business Administration from the TUM Business School. Since 2007, he worked in a Management Consultancy as a Consultant for Lean management. Later he obtained his PhD in Mechanical Engineering at the University of Stuttgart in Germany. Since 2014, he is Assistant Professor at the Free University of Bolzano and in 2017 Visiting Researcher at Worcester Polytechnic Institute (WPI) in Worcester, MA (USA). Further, he is Head of the Smart Mini Factory laboratory for Industry 4.0 application at the Free University of Bolzano. His research interests include industry 4.0, axiomatic design, agile and reconfigurable manufacturing systems as well as optimization in SMEs.

Panel Speaker IV

Panel 4 - Industry 4.0 Panel

5:00 - 6:45 pm (Wednesday, March 10) - Room 1

"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises".

Panel Chair

**Ts. Dr. Mehran Doulat**

Associate Professor
MBA Review Committee/Coordinator
Xiamen University Malaysia (XMUM)
Director of Centre for Operational Excellence Research (COER)
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master's Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a "TRADE" Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic-industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

Panel Speaker I

**Dr. Nigel Grigg**

Professor of Quality Systems
Head of Department of Operations and Engineering Innovation (OEI)
School of Engineering and Advanced Technology
Massey University, Palmerston North, New Zealand
Associate Editors of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing

Dr. Nigel is the Professor of Quality Systems, and leads the Department of Operations and Engineering Innovation (OEI) within the School of Engineering and Advanced Technology at Massey University, Palmerston North, New Zealand. Dr. Nigel undertakes teaching, research and consultancy across the disciplines of industrial design and innovation, operations management, supply chain management, quality systems, and information technology applications to operations. Dr. Nigel's particular specialism is quality systems, including business process improvement, statistical quality control, six sigma, lean, Business Excellence, service quality, research methods and structural equation modelling. He applies mathematical and statistical methods within operations management, particularly to the management and control of product, service quality and supply chain systems. His recent research projects include developing a performance measurement framework for national health care, applying lean thinking within a horticulture setting, and examining the role of national culture as a mediating influence on 'standardised' management and improvement frameworks such as ISO 9001, Six Sigma, and lean. Dr Nigel served as Associate Editor of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing since 2014.

Panel Speaker II

**Dr. Matthew Pepper**

Senior Lecturer

School of Management, Operations and Marketing

University of Wollongong (UOW), New South Wales, Australia.

Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management. and International Journal of Information and Operations Management Education

Dr. Matthew pepper is currently a Senior Lecturer within the School of Business, Faculty of Business and Law, at the University of Wollongong Australia. Matt sits on the editorial advisory boards of a number of academic journals, including the Journal of Manufacturing Technology Management, International Journal of Lean Six Sigma and the International Journal of Information and Operations Management Education. Within the faculty of Business and Law, his teaching responsibilities include supply chain management and strategy at both undergraduate and postgraduate levels. Matt's core research interests lie in the application of systems thinking to supply chain disruption, performance management and continuous improvement in the public sector. Most recently, his work has focused on engaging with public sector organizations to develop appropriate performance measurement and management strategies. Matt has currently supervises a number of industry based candidates in these areas of interest and has been an external examiner for a number of PhD theses.

Panel Speaker III

**Dr. Azmawani Abd Rahman**

Professor

School of Business and Economics

Universiti Putra Malaysia (UPM)

President of Research and Education at the Malaysia Franchise Association (MFA)

Former Director of Corporate Strategy and Communication Office UPM

Former Deputy Director of Research Management Centre UPM

Dr. Azmawani Abd Rahman is a Professor at the School of Business and Economics Universiti Putra Malaysia (UPM). She holds a Bachelor of Science in Finance from the University of South Alabama (United States) and a Ph.D. in Operations and Technology Management from Aston University, United Kingdom. Previously, she served as Director of Corporate Strategy and Communication Office UPM, where she was responsible for various university main functions such as public and media relation, university rankings and ratings, and university strategic directions and key performances. Prior to that, she was a Deputy Director at UPM Research Management Centre, Head of Department and Deputy Dean at the Faculty of Economics and Management, UPM. Azmawani actively collaborates with the industry through her involvement as an advisor, assessor, consultant, and trainer. She is currently a president for the Research and Education committee at the Malaysia Franchise Association (MFA). She has made more than 50 appearances in the mainstream media (newspaper, television, radio) through her writing and comments. She published in more than 150 articles in Scopus and ISI cited journals and books. Azmawani was appointed as an official case writer for Malaysia Productivity Corporation Business Excellence Award and Chief Minister Industry Excellence Award.

Panel Speaker IV

**Dr. Mat Naim Abdullah**

Associate Professor

Faculty of Built Environment and Surveying

Deputy Director, UTM Centre for Quality and Risk Management

Universiti Teknologi Malaysia (UTM)

Dr Naim's holds a BSc. in Quantity Surveying from University of Glasgow Caledonian, United Kingdom. He has a Master of Engineering in Construction and PhD in Facilities Management, both from Universiti Teknologi Malaysia. His specialisation is in the area of Project Management, Facilities Management and Quality Management System. He is also a certified trainer for Safety Course and a Certified Quality Auditor. Prior to joining Universiti Teknologi Malaysia he was with the construction industry for 20 years working in various fields and positions such as quantity surveyor for consulting firm and contract manager for local and international construction companies. He had also served as a Manager at the Construction Industry Development Board Malaysia. He also had his own business in safety and quality in construction between 2001 to 2005. In 2006 he joined Universiti Teknologi Malaysia and currently an Associate Professor at the Department of Real Estate, Faculty of Built Environment and Surveying. He is also seconded as a Deputy Director at the UTM Centre for Quality and Risk Management.

Panel 5 - Diversity and Inclusion Panel sponsored by Ford Motor Company

9:00 - 10:30 pm (Wednesday, March 10) - Room 1

Panel Chair:



Professor Cecilia Nembou
President and Vice-Chancellor (Retired)
Divine Word University
Papua New Guinea

Until the end December 2020, Dr Cecilia Nembou was for five years, the President of the Divine University in Papua New Guinea. She was a Professor of Higher Education Leadership and Management. She is a mathematician by training and holds a PhD in Operations Research from the University of New South Wales (1992) in Sydney, Australia. She has held various academic and senior management positions at the University of Papua New Guinea, Papua New Guinea Banking Corporation, University of Wollongong in Dubai and at the Divine Word University over a period spanning 45 years. Dr Nembou has served on various committees and Councils of Universities as well as on Boards of State-Owned Enterprises and Boards of commercial and non-government organizations. As President of the Divine Word University she was a member of the Divine Word University Council and CEO of the University's Six-campus corporate system. She was a past Head of Mathematics Department, Executive Dean of the School of Natural and Physical Sciences, Pro Vice Chancellor, and Acting Vice Chancellor at the University of Papua New

Guinea; and past Academic Registrar and Senior Lecturer in Mathematics at the University of Wollongong in Dubai. She is now retired and resides in Madang in Papua New Guinea.

Panel Speaker I



Dr. NG Szu Hu
Associate Professor and Acting Head
Department of Industrial Systems Engineering and Management
National University of Singapore
Singapore

Szu-Hui Ng received the PhD degree from the Department of Industrial and Operations Engineering at the University Michigan. She is currently an associate professor and acting head in the Department of Industrial and Systems Engineering at the National University of Singapore. Her research interests include quality engineering, design of experiments, and simulation. She has published a number of papers in these areas.

Panel Speaker II



Dr. Hannelie Nel
Senior Lecturer, Postgraduate School of Engineering Management
Faculty of Engineering and the Built Environment
University of Johannesburg
South Africa

Dr Hannelie Nel is an Academic in the Postgraduate School of Engineering Management at the University of Johannesburg. She holds a Doctorate in Engineering Management, a Master of Science Degree in Industrial Engineering and a Bachelor's Degree in chemical Engineering. She has twenty years' experience in both industry and academia and her work entails business and education strategy development; the design, implementation and costing of business and quality management systems; training and education; business research systems; process improvement; and gender advancement in engineering.

Panel Speaker III



Dr. Ho Hwi Chie, M.Sc.
Dean, Binus Aso School of Engineering (BASE)
Bina Nusantara University (Binus)
Binus Aso School of Engineering
BASE Campus, Jl. Alam Sutera Boulevard No. 1
Tangerang, Banten 15325, Indonesia

Hwi Chie Ho is Dean of Binus School of Engineering and Professor in Industrial Engineering at Bina Nusantara University, and has been teaching and publishing researches associated with ergonomics, quality, and industrial psychology. She is a member of the Institute of Industrial and Systems Engineers (IISE), Human Factors and Ergonomics Society (HFES), and American Psychology Association (APA). She has also served as the faculty advisor of the newly established IISE BINUS University Student Chapter # 716 that has earned Gold Award in three consecutive years since the establishment.

Panel Speaker IV



Jihong Yan, Ph.D.
 Professor in Industrial Engineering
 Deputy Dean of School of Mechatronics Engineering
 Head of intelligent Manufacturing Scientific Research Team
 Harbin Institute of Technology, Harbin, China

Jihong Yan is a Professor (since 2005) in Industrial Engineering at Harbin Institute of Technology (HIT), she is also the deputy dean of School of Mechatronics Engineering and head of intelligent manufacturing scientific research team at HIT. She received her PhD from Harbin Institute of Technology. Then she joined Tsinghua University, the University of Wisconsin, and Pennsylvania State University as a postdoctoral researcher. Dr. Yan is the director of National High-end Equipment Manufacturing Virtual and Simulation Experiment Teaching Center, head of Research Oriented Teaching Innovation Team for High-end Equipment Manufacturing of the Ministry of Industry and Information Technology of China, vice chairman of Production System Special Committee of Chinese Mechanical Engineering Society, and chairman of Industrial Engineering Professional Committee of the Mechanical Engineering Society of Heilongjiang Province. Her main area of research is industrial big data, sustainable manufacturing, intelligent logistics and advanced maintenance of machinery. As a PI, Dr. Yan has worked on and accomplished 15 projects in intelligent manufacturing and sustainability related areas, funded by the NSF of China (NSFC), NSF-

NSFC joint-project funding, National key R&D plan project funding, National High-tech project funding, National "863" project funding, EU EPSRC project funding, High-tech funding from industries, and so on. She has authored and co-authored over 100 research papers and published 3 books, two papers were ranked ESI high cited articles. Currently there are 17 professors and engineers with her research team, the team dedicates to theoretical research and system implementation in the fields of intelligent operation optimization theory and methods of manufacturing systems, manufacturing IoT technologies and devices, and equipment health monitoring, etc.

Panel Speaker V



Hajj Flemings
 CEO/Founder
 Rebrand Cities
 Birmingham, Michigan, United States

Hajj Flemings was one of eight entrepreneurs selected for CNN's Black in America 4: The New Promised Land: Silicon Valley documentary with Soledad O'Brien. During the documentary, he began to understand the real meaning of the term 'meritocracy.' He recognized that lack of access in the technology space created a permanent underclass in communities of color. That experience changed the course of his life. Hajj is the founder of Brand Camp® University, an educational platform preparing people for the future of work. In 2017 he launched Rebrand Cities, a global civic design initiative with the audacious goal of getting 10,000 businesses online and eradicating

the digital divide. He has worked with clients including Cadillac, Walt Disney, AT&T, WordPress.com, Pitney Bowes, Pfizer, the Detroit Lions, and the U.S. Department of Defense. He has had the privilege of being an invited speaker at Harvard University, Iowa State University, University of Michigan - Ross School of Business, Davidson College, among others; as well as being featured in the Wall Street Journal, TechCrunch, Mashable, and CNN Tech Money on the subjects of startups, digital technology, and branding. Hajj Flemings earned a Bachelor of Science degree in Mechanical Engineering from Michigan Technological University and a Master's degree in Business Administration from Lawrence Technological University. In his free time, Hajj enjoys training for his next half marathon, as well as spending time with his wife and daughter in the Detroit metro area.

Panel Speaker VI



Professor Donald M. Reimer
 Director of Membership and Chapter Development – IEOM Society
 President, The Small Business Strategy Group, Detroit, Michigan, USA
 Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
 Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence

Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Parallel Sessions

All Times are in Singapore Time

Saturday, February 27, 2021, 7:00 am – 2:00 pm

High School STEM Competition

Sunday, March 7, 2021

	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 9:45 am	Operations Management	Engineering Economy	Human Factors & Ergonomics	Design and Analysis	Business Management
10:00 – 11:45 am	Decision Sciences	Sustainability & Green	Entrepreneurship/Innovation	Energy	Business Management
12:00 – 1:45 pm	Undergraduate Paper Competition	Lean Six Sigma	Operations Management	Maintenance/Reliability	Operations & Processes
2:00 – 3:45 pm	Undergraduate Paper Competition	Business Management	Quality Control	Engineering Education	Engineering Management
4:00 – 5:45 pm	Undergraduate Paper Competition	Women in Industry and Academia (WIIA) Panel	Modeling and Simulation	Supply Chain	Operations Excellence
6:00 – 7:45 pm	Manufacturing and Control	Business Management	Undergraduate Research Competition	Business Management	Senior Design Project / FYP Competition
8:00 – 8:45 pm	Keynote I: Dr. Mario Farnoli, Technical Director, Italian Ministry of Agriculture and Contract Professor at Faculty of Civil and Industrial Engineering of Sapienza University of Rome, Italy				
9:00 – 10:30 pm	Modeling and Simulation	Supply Chain	Design and Analysis	Green and Waste	Operations Management

Monday, March 8, 2021

	Room 1	Room 2	Room 3	Room 4	Room 5
8:00 – 9:45 am	Graduate Paper Competition	Maintenance & Reliability	Business Management	Supply Chain	Operations
10:00 – 11:45 am	Master Thesis Competition	IoT	Case Studies	Engineering Management	Business Management
12:00 – 1:45 pm	Master Thesis Competition	Case Studies	Operations Management	Case Studies	Education
2:00 – 3:45 pm	Graduate Paper Competition	Supply Chain Panel	Sustainable Manufacturing	Operations Management	Education
4:00 – 5:45 pm	COVID-19 Analytics Competition	AI and Cybersecurity	Transportation and Logistics	Supply Chain	Education
6:00 – 7:45 pm	COVID-19 Analytics Competition	Smart Mobility	Case Studies	Industry 4.0	Education
8:00 – 9:45 pm	COVID-19 Analytics Competition	Healthcare Systems	Operations Management	Machine Learning	Education

Tuesday, March 9, 2021

	Room 1	Room 2	Room 3	Room 4	Room 5
8:00	Global Engineering Education I	Construction Management	AI	Operations Research	Case Studies
9:30	Welcome Keynote: Professor Cheong Hee Kiat, President, Singapore University of Social Sciences				
9:40	Keynote II (Opening Keynote): Dr. Hamid Parsaei, Professor, Dept. of Industrial and Systems Engineering, Texas A&M University, College Station				
10:20	Keynote III: Alex Teo, Vice President & Managing Director – South East Asia, Siemens Digital Industries Software, Singapore				
11:00	Keynote IV: Dr. Chung Piaw TEO, Provost's Chair Professor, Executive Director, IORA, Business School, National University of Singapore				
11:40	Keynote V: Dr. Benny Tjahjono, Professor of Supply Chain Management, Centre for Business in Society, Coventry University, UK				
12:20	Keynote VI: Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China				
1:00	Global Engineering Education II	Case Studies	Business Management	Lean Six Sigma	Operations Management
3:00	Global Engineering Education III	Energy	Human Factors & Ergonomics	Supply Chain	OM
5:00	Global Engineering Education IV	Supply Chain	Industry 4.0	Automation and Control	IEOM-FlexSim Simulation Competition
7:00	Global Engineering Education V	Higher Education	Supply and Demand	Teaching and Learning	TQM
9:00	Global Engineering Education Panel – Room 1				

Wednesday, March 10, 2021

	Room 1	Room 2	Room 3	Room 4	Room 5
8:00	Industry 4.0 / Industry Solutions I	Sustainability in Supply Chain	Design and Analysis	Supply Chain Management	Case Studies
9:30	Conference Chair Remarks				
9:40	Keynote VII: Dr. Victoria Jordan, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA				
10:20	Keynote VIII: Dr. Koh Niak Wu, CEO and CTO, Cosmigo International, Singapore				
11:00	Keynote IX: Dr. Ir. Wahyudi Sutopo, Professor, Dept. of Industrial Engineering and Vice Dean, Universitas Sebelas Maret, Indonesia				
11:40	Keynote X: Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand				
12:20	Keynote XI: Dr. Alessandro Romagnoli, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore				
1:00	Industry 4.0 / Industry Solutions II	Maintenance and Reliability	Data Analytics	Engineering Management	Technical Session
3:00	Industry 4.0 / Industry Solutions III	Entrepreneurship / Innovation	Decision Sciences	Industrial Management	SCM Competition
5:00	Industry 4.0 Panel	Operations Research	Energy	Business Management	LSS Competition
7:00	Industry Solutions V	Technical Session	Technical Session	Business Analytics	Doctoral Competition
9:00	Diversity and Inclusion Panel Sponsored by Ford Motor Company – Room 1				

Thursday, March 11, 2021

	Room 1	Room 2	Room 3	Room 4	Room 5
8:00	Global Business Management I	Business Management	Healthcare Systems	Project Management	OM
9:30	Conference Chairs Remarks				
9:40	Keynote XII: Dr. Robert de Souza, Executive Director, The Logistics Institute – Asia Pacific (TLI – Asia Pacific), Singapore				
10:20	Keynote XIII: Dr. Jenson Goh, Chief Information and Learning Officer, Monde Nissin Singapore Pte Ltd., Singapore				
11:00	Keynote XIV: Dr. Hoong Chuin LAU, Professor of Information Systems, Singapore Management University (SMU), Singapore				
11:40	Keynote XV: Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore				
12:20	Keynote XVI: Dr. Noordin Mohd. Yusof, Professor, Department of Materials, Manufacturing and Industrial Engineering, UTM, Malaysia				
1:00	Global Business Management II	E-Business/E-Service	Information Systems	Logistics and Transportation	IoT
3:00	Global Business Management III	Occupational Safety & Health	Quality Control	Business Analytics	Supply Chain
5:00	Global Supply Chain Education IV	Facilities Planning and Layout	Business Analytics	Disruptive Technologies	Manufacturing
6:30	Global Supply Chain Education V	Waste Management	Work Design, Measurement	Occupational Safety Health	Environmental Eng.
8:00 – 10:00 pm, Thursday, March 11 - Conference Awards Ceremony					

February 27, 2021 (Saturday) - Session: 7:00 am – 2:00 pm

High School STEM Competition

Session Chair: Professor Don Reimer, LTU, Michigan, USA

Judges: TBD

ID 1080 Modeling and Analyzing COVID-19 Infection Curves of Different Countries Using Nonparametric Density Regression and Clustering Techniques

Saloni Patel and Mason Chen, Stanford Online High School, Redwood City, CA 94063, USA

ID 1081 Utilizing Statistical Tools to Explore Swing State Behavior in the 2020 Election

Saloni Patel and Mason Chen, Stanford Online High School, Redwood City, CA 94063, USA

ID 721 Understanding Student's Learning using Keyword Discovery and Sentiment Analysis in Serious Game

Chang Zhi Hao Nelson, Ruan Yang, Simon Chan, and Linda William, Temasek Polytechnic, School of Informatics & IT, Singapore

ID 729 Serious Game Data Collection using Shared Database

Elroy Chua, Zulfami Ashrafi, Muhammad Rizal Ismail, Nur Aisha Khalid, Linda William, School of Informatics & IT, Temasek Polytechnic, 21 Tampines Ave 1, Singapore

ID 807 Analyzing ACL Injury Risk Using 3D-Motion Sensors and Various Statistical Methods

Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA

ID 808 Interpreting RSM Results – Dimpling Physics or a Problematic DOE Structure?

Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA
Patrick Giuliano, Morrill Learning Center, Statistics-Aided Engineering 2191 Morrill Avenue, San Jose, CA 95132, USA

ID 854 Optimizing Car Safety and Function using Mixture DOE and Physics

Arhan Surapaneni, Stanford Online High School, United States

ID 973 2020 US COVID Stock ROI Multivariate Statistical Modeling during COVID-19 Outbreak

Chi-hong Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 974 Building statistical models and validating NBA 2015-2019 Regular Season MVP

Chi-feng Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 975 Perfecting College Essay Strategy with Text Mining Method

Chi-hong Ho and Chi-feng Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Arhan Surapaneni and Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 910 Perfecting College Essay Strategy with AHP Methods and Homogeneous Testing

Arhan Surapaneni and Mason Chen, Stanford Online High School, CA, United States
Chi-Feng Ho and Chi-Hong Ho, Henry M. Gunn High School, CA, USA

ID 976 Using Quality Function Deployment method perfecting UC application 8 prompt choosing strategy

Chi-feng Ho and Chi-hong Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Arhan Surapaneni and Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 731 Three-Level Closed-Loop Supply Chain Considering Carbon Emission of Industrial Cost for Self-Healing Packages

Jose Ma. Luis Salazara, Senior High School student and Ardivin Kester S. Ongb, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 765 Three-Level Closed-Loop Supply Chain Optimization Considering Self-Healing Packages

Diorelle Oneil C. Gallarza (Senior High School student), Ardivin Kester S. Ongb, Luis Carlos Miguel M. Eborab, Jake Matthew C. Depositario, and Juan Limson C. Andradab, Young Innovators Research Center, Mapúa University, Manila, Philippines, Intramuros, Manila, Philippines

ID 1127 Happy Harry!

Lucas Nai Yi Jia, Ethan Lim Yoke Han, Kaiser Chao Yu Dong and Troy Chng Kai Sheng, St Patrick's School, Singapore

ID 1128 Analyzing the Open Electricity Market in Singapore using Data Science Approaches

Natasha Alexandra Gunawan and Wong Yew Chong Kester, National Junior College, 37 Hillcrest Rd, Singapore

ID 1141 Park Model using Concentrated-Solar-Power Photovoltaics

Darren Johaness Manua and Eden Steven, SPH Applied Science Academy, Sekolah Pelita Harapan Lippo Village, Tangerang, Banten

ID 1144 COVID-19 Vaccine Track and Traceability System

Warattra Singkarin, Kwinyarut Pounsangthanakul, Kunyapak Teekakun and Pramote Namyang, Satriwithaya School, Bangkok, Thailand

ID 1145 Biaxial Tensile Test System: Articular Cartilage Properties in Biaxial vs. Uniaxial Tension

Aadi Biswas, 10th Grade, Singapore American School (High), Singapore, 738547, Singapore
Van W. Wong, Albert C. Chen, and Robert L. Sah, Department of Bioengineering, University of California, San Diego, La Jolla, California, USA

ID 1146 Antiviral Nanomask in the Fight against Covid-19 Pandemic

Lakshith Br, Vignesh Sk, Nivedha R and Mohankumar Jk, Reeds World School, Coimbatore, India

ID 1151 The Plausibility Of Recycling Used Tennis Strings As 3D Printing Filament

Anoushka Ghosh, International Baccalaureate Year 1, United World College South East Asia (Dover), Singapore, 139654, Singapore

ID 1158 Battery Can Help

Po-Kai, Fang, Yu-Chien, Wu, and Ying-Ci, Lin, Taipei Municipal Yongchun senior high school, Taipei, Taiwan

ID 1159 Study of Ferrofluid and Magnetic Fields

Lan-Cheng Li and I-Kai Li, Mathematically Gifted Class, Taipei Municipal Yongchun Senior High School, Xinyi Dist., Taipei City, Taiwan

ID 1174 Discussion on the properties of Magnetic Fields

Wang Ding-Chia and Yu-Bo-Ren, Mathematically Gifted Class, Taipei Municipal Yongchun Senior High School, No. 654, Songshan Rd., Xinyi Dist., Taipei City 110, Taiwan (R.O.C.)

ID 1187 Interpretability in Convolutional Neural Networks for Building Damage Classification in Satellite Imagery

Thomas Chen, The Academy for Mathematics, Science, and Engineering, Rockaway, NJ 07866, USA

ID 1201 Using Machine Learning Optimization to Predict Autism in Toddlers

Z. Farooqui, B. Sattler, U. Usua, M. Helde, and A. Singh, ARQuest Student Science and Engineering Research Network, ARQuest International, USA

ID 1202 Croptimize: A Novel Robot to End Agricultural Yield Inefficiencies through Crop Switching

Pranav Palleti, Shivam Pathak, Ashok Devireddy, Pranav Prabhuram, Sameer Iyengar, Sukhamrit Singh, and Ankit Kapoor, Evergreen Makers, Evergreen Valley High School, San Jose, CA 95148, USA

March 7, 2021 (Sunday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, SUNDAY**Operations Management****Room 1**

Session Chair: Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 686 Determination the Smoothing Constant that Minimizes Mean Absolute Error and Mean Square Deviation

Agung Prabowo, Agustini Tripena, Danang Adi Pratama, and Ibnu Ginanjar Susilo, Zulfatul Mukarromah, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia

Mustafa Mamat, Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin (UNISZA), Gong Badak Campus, Terengganu, Malaysia

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 687 A New Three-Dimensional Chaotic System with Stable Equilibrium: Its Adaptive Control and Circuit Design

Siti Hadiaty Yuningsih, Master Program in Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran, Indonesia

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Aceng Sambas, Departement of Mechanical Engineering, Universitas Muhammadiyah Tasikmalaya, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 733 Determining the Size of Centrality in Social Networks

Mochamad Suyudi, Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 741 Fintech Payment Application in Improving Customer Services

Fredi Andria, and Dea Restu Ananda, Department of Management, Faculty of Economics Pakuan University, Bogor, Indonesia

Amelia Rahmi, Department of Accounting, Faculty of Economics Pakuan University, Bogor Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 756 Comparison of ARIMA, Linear Trend and Single Exponential Smoothing for short-term forecasting of power plant spare parts inventory

Agus Sutomo, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 761 Credit Analysis Optimization Using Fuzzy Neural Network

Retno Martanti Endah Lestari, Arief Tri Hardiyanto, Abdul Kohar, and Yuni Asrika, Department of Accounting, Faculty of Economics Pakuan University, Bogor, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 766 Comparison of ARIMA, Linear Trend and Single Exponential Smoothing for short-term forecasting of power plant spare parts inventory

Agus Sutomo, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

8:00 – 9:45 am, SUNDAY**Engineering Economy****Room 2**

Session Chair: Annisa Qurrota A'yun, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia

ID 745 Investigating the Effect of Micro Waqf Bank Sector Expansion on Poverty Alleviation: An Evidence from Indonesia Rural Communities

Fuadi, Ahmad Fauzul Hakim Hasibuan, Rico Nur Ilham, Falahuddin, Wahyuddin, Muammar Khaddafi, and Munandar, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

ID 958 Nexus of America's Exchange and Interest Rate toward Indonesia's Economy: An Application of Time-Series Regression

Ulfa, Faculty of Economics, Universitas Serambi Mekkah, Lueng Bata, Banda Aceh City, Aceh 23127, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 868 Investigating the Features of Indonesia Stock Price during Covid-19 pandemic: An Application of Merton Jump Diffusion Model

Dhea Putri Adriani, Ratna Herdiana and Widowati, Department of Mathematics, Faculty of Science and Mathematics, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 870 Factors that Affect Customer Credit Payments during COVID-19 Pandemic: An Application of Light Gradient Boosting Machine (LightGBM) and Classification and Regression Tree (CART)

Imas Wihdah Misshuari, Ratna Herdiana, and Farikhin, Department of Mathematics, Faculty of Science and Mathematics, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 829 Financial Management System Integrated by Web-Based Payment Cash Link Solution to Invent Smart Reconciliation

Untung Rahardja, Qurotul Aini, Nuke Puji Lestari Santoso, and Marviola Hardini, Master of Information Technology Department, University of Raharja, Indonesia
 Aulia Edliyanti, Student of Computer Accounting Department, University of Raharja, Indonesia

ID 841 Determinant Factors that affect Foreign Banks Profitability: An Evidence from Indonesia

Ruhul Fajriana, Muhammad Roni, and Ghazali Syamni, Department of Management, Universitas Malikussaleh, Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia
 Ichsan, Department of Economics, Universitas Malikussaleh, Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia
 Alwin Taniro, Department of Management, Universitas Gajah Putih, Pegasing, 24552 Central Aceh, Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 862 Analysing the Measurement System and Business Loans Performances: A Case Study of People's Credit Bank (BPR-BKK) in Central Java, Indonesia

Annisa Qurrota A'yun, Diploma of Strategic Management, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
 Muhammad Wildan Sholih and Imam Prayogo, Diploma of Financial Accounting, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
 Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

8:00 – 9:45 am, SUNDAY**Human Factors and Ergonomics****Room 3**

Session Chair: Carissa Joie C. Hernandez, Adamson University Manila, Philippines

ID 465 A Research Study on the Effects of Job Rotation on Employee Productivity and Satisfaction on Selected Garment Companies

Marvin A. Carreon, Shiela Myka D. Generoso, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 601 Assessment of Airplane Seat Pitch Design using Saudi Anthropometric Data

Atef M. Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
 Abdallah Alrshdan, Mona Alharbi, Sarah Alrowaita, and Aljawhara Aljebreen, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh, Saudi Arabia

ID 418 Easy to Produce and Low-Cost Ergonomics Full-Face Mask Design against Airborne Transmission

Arief Rahman, Retno Widyaningrum, Anny Maryani, Aldi Yustisia, and Putra Bagus Satrio, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 169 Ergonomic Interventions for Designing the Workstation of a Manual and Highly Repetitive Lifting Task in a Paint Industry

Affia Sumaya, Aquib Irteza Reshad, Nowsheen Sharmili and Muniom Shahriar, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, 1000, Bangladesh

ID 182 Ergonomic Study for the Design of a Comfortable Office Working Environment for Work from Home Employees

Jaimehen M. Avinante, Rose-Ann P. Pasiona, and Danica Myle B. Tibayan, Industrial Engineering Department, Technological Institute of the Philippines – Manila, Philippines
 Janina Elyse A. Reyes, Industrial Engineering Department Technological Institute of the Philippines – Manila, Philippines

ID 748 Safety Behavior Factors of Provisioning Technician

Atya Nur Aisha, Fida Nirmala Nugraha, and Indi Erdiniaty, Industrial Engineering Department, Telkom University, Bandung, Indonesia

ID 750 Determinants of Human Development Index in Indonesia

Verawaty, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia
 Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia
 Rolia Wahasumiah, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia
 Citra Indah Merina, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia

ID 189 Ergonomics Study on Productivity of Middle-Aged Workers in the Shoe Industry

Carissa Joie C. Hernandez, Rachel G. Llabores and Venusmar C. Quevedo, Industrial Engineering Department, Adamson University Manila, Philippines

8:00 – 9:45 am, SUNDAY**Design and Analysis****Room 4**

Session Chair: Selvi Selvi, BINUS University, Indonesia

ID 078 Enhanced Hyper Cube Framework ACO for Structural Combinatorial Optimization Problems

Ali Ahmid, Thien-My Dao and Van Le, Department of Mechanical Engineering, École de Technologie Supérieure ÉTS, Montreal, Canada

ID 806 Design of a Centrifugal Pump for Efficiency Optimization

A.R. Mataine, Motsi Ephrey Matlakala and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa

ID 884 Desideratum Design of Remotely Piloted Aircraft (RPA) Application in Natural Disaster Management

Ardjie Matawaran and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 904 Innovative Disassembly Sequence Applied to a Virtual Mechanical Reducer

Gian Maria Santi, Leonardo Frizziero, Alfredo Liverani, Martina Tinuper, and Giampiero Donnici, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 934 Design and Fabrication of Efficient Electromagnetic Braking System for Bangladesh Railway: A Prototype Approach

Raise Uddin Chowdhury, Rafat Mahmud Hridoy, Md. Rafiquzzaman, and Aftab Uddin Sifat, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh
 Md. Norozzaman Jiko, Department of Electrical and Electronic Engineering, Khulna University of Engineering & Technology, Bangladesh

ID 1014 Usability Tool Evaluation using Usability Testing Method at PT Media Dokter Investama (Halodoc Indonesia)

Selvi Selvi, BINUS University, Indonesia

8:00 – 9:45 am, SUNDAY**Business Management****Room 5**

Session Chair: Erlyn Ivy O. Rago, Cebu Institute of Technology – University, Cebu City, Philippines

ID 852 Singapore Airlines: Profit Recovery and Aircraft Allocation Models during the COVID-19 Pandemic

Michelle L.F. Cheong, Ulysses M.Z. Chong, Anne N.T.A. Nguyen, Su Yiin Ang, Gabriella P. Djojosaputro, Gordy Adiprasetyo, and Kendra L.B. Gadong, School of Computing and Information Systems, Singapore Management University Singapore

ID 812 Local Business in Mid of Covid-19 Pandemic: A Prominent Case Study in Bandung, Indonesia

Velicia Ferren Widjaja, Bina Nusantara University, Indonesia
 Rionaldi Budianto, Bina Nusantara University, Indonesia
 Doni Purnama Alamsyah, Bina Nusantara University, Indonesia

ID 813 Smart Tourism Experiences: Virtual Tour on Museum

Tiurida Lily Anita and Lianna Wijaya, Hotel Management Department, Faculty of Economy, Management Department, Faculty of Binus Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Athea Sarastiani, Service Management, Trisakti University, Jakarta, Indonesia
 Elang Kusumo, Hospitality and Tourism Faculty, Pelita Harapan University, Karawaci, Tangerang, Indonesia
 Santi, Faculty of Management, STIE BISMA LEPISI, Tangerang, Indonesia

ID 840 Determinant Factors that Affect Manufacturing Sectors Profitability: An Evidence from Consumer Goods Industry, Indonesia

Sahrial NST, Rasyimah, Ghazali Syamni and Wardhiah, Department of Management, Faculty of Economics and Business, Universitas Malikussaleh
 Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia
 Hakim Muttaqim, Department of Economics, Universitas Almuslim, Peusangan, 24261 Bireuen, Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 942 Intelliter: An Android- Based Intelligent Commuting Mobile Application

Jonh Ray B. Medina, Jobelle L. Lapira, Jeuel P. Pamintuan, Karen Mae C. Liscano and Wayne C. Manalili, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines

ID 630 Management of Entrepreneurship Training Program in Literacy Village

Tri seminar, Mintarsih Arbarini and Imam Shofwan, Non-formal Education, Faculty of Education, Universitas Negeri Semarang, Kota Semarang, Provinsi Jawa Tengah, Indonesia

ID 906 College Student Readiness Assessment for Online Distance Learning During COVID-19 Pandemic

Erlын Ivy O. Rago and Alein B. Navares, Department of Industrial Engineering, Cebu Institute of Technology – University, Cebu City, Philippines

March 7, 2021 (Sunday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, SUNDAY

Decision Sciences

Room 1

Session Chair: Januar Nasution, Department of Engineering, BINUS University, Indonesia

ID 793 Crisis of Trust in the Government in Handling COVID-19 in Palopo City

Ishak Runi, Arif Ferdian, Zulkifli Darwis and Kiki Reski, Social and Political Science Faculty, Andi Djemma University, Indonesia

ID 707 Determination of distribution center location for paper packaging using Center of Gravity method and Analytical Hierarchy Process

Sutaji, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercu Buana, Jakarta, Indonesia

ID 746 Supplier selection decision making in the pharmaceutical industry based on Kraljic portfolio and MAUT method: A Case Study in Indonesia

Yudi Abdillah, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercubuana, Jakarta, Indonesia

ID 848 Experiential Marketing Analysis of Customer Satisfaction on Wings Air Aircraft User in Namlea City

Firman Gazali Djunaidi, Universitas Iqra Buru, Indonesia

ID 849 ARIQA of Sammaniyah Palembang in 1900-1945: Struggle and Game Power of the Tariqa Sammaniyah Scholars in Maintaining the Existence of the Tariqa Sammaniyah

Rudy Kurniawan, Ph.D Candidate, Graduate Sociology in Faculty of Social and Politic Sciences, Universitas Brawijaya, Indonesia

Darsono Wisadirana, Sanggar Kanto and Siti Kholifah, Postgraduate lecturer in Faculty of Social and Political sciences, Universitas Brawijaya

M Chairul Basrun Umanailo, Universitas Iqra Buru, Indonesia

ID 1007 The Influence of Social Media and Word of Mouth on Study Program Selection Decisions at Private Universities in Palembang

Ramadhoni Adam, Students on a Management Study Program, Faculty of Economics and Business, Universitas Bina Dharma, Palembang, Indonesia

Muji Gunarto, Faculty of Economics and Business, Universitas Bina Dharma, Palembang, Indonesia

ID 892 Inventory policy in Airline Industry

Januar Nasution, Department of Engineering, BINUS University, Indonesia

10:00 – 11:45 am, SUNDAY

Sustainability and Green Systems

Room 2

Session Chair: Annista Wijayanayake, University of Kelaniya, Dalugama, Sri Lanka

ID 345 A Scientometric Mapping of Green Economy Academic Publication

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

Mega Firdaus, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

Didin Hadi Saputra, Business Administration Department, Universitas Nahdlatul Wathan Mataram, Mataram, Indonesia

Arya Teja, Information System Department, Universitas Bahaudin Mudhary Madura, Sumenep, Indonesia

Wulandari Harjanti, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

ID 344 Green Accounting Study: Twenty-Seven Years Lesson of Scientometric Mapping

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

Anita Kartika Sari, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

Triana Susanti, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

Sri Rahayu, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

Ravika Ayu Ashari, Information System Department, Universitas Dinamika, Surabaya, Indonesia

ID 336 Green Marketing Publication: Bibliometric Perspective Mapping

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

Robertus Tang Herman, Management Department, Bina Nusantara University, Jakarta, Indonesia

Nur Asitah, Primary Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

ID 036 Industrial Hemp: The Future of Sustainability

Praveen Kumar Azad, DTU, Department of Mechanical Engineering, Delhi Technological University (formerly DCE), Rohini, Shahbad Daulatpur, New Delhi, India

ID 183 Structural Equation Modeling of the Relationship of Environmental Pollution, Economic Cost, and Public Health

Digno, Jerico C. and Quevedo, Venusmar C., Industrial Engineering Department, College of Engineering, Adamson University, Manila, Philippines

ID 1020 Livelihood Sustainability

Zaini Munawir, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

ID 165 Analysing the risk in the supply chain of apparel industry during an epidemic outbreak

Annista Wijayanayake, Sanduni Perera and Suren Peter, Department of Industrial Management, University of Kelaniya, Dalugama, Sri Lanka

10:00 – 11:45 am, SUNDAY**Entrepreneurship and Innovation****Room 3**

Session Chair: Lina Gozali, Universitas Tarumanagara, Jakarta, Indonesia

ID 110 Tech Startup Failure in India: Do Lifecycle Stages Matter?

Ganesaraman Kalyanasundaram and MH Bala Subrahmanya, Department of Management Studies, Indian Institute of Science, Bengaluru, India
Sitaram Ramachandula, Bengaluru, India

ID 223 The Aspects of Entrepreneurship and Innovation Development of SMEs

Inese Ratanova Faculty of Business, Management and Economics, University of Latvia, LV-1586, Raiņa Blvd. 19, Latvia
Inesa Voroncuka, Faculty of Business, Management and Economics, University of Latvia, LV-1586, Raiņa Blvd. 19, Latvia

ID 519 The Propensity of a tech startup to approach a financial source: An Analysis of its determinants over the lifecycle

Shivalik Singh, Senior Research Fellow, Department of Management Studies, Indian Institute of Science, Bangalore, India
M H Bala Subrahmanya, Professor, Department of Management Studies, Indian Institute of Science, Bangalore, India

ID 280 The recession as an effect of the COVID 19 pandemic and the continuity of business in the companies of the Cia. Imbabura S. A. Industrial Park (PIISA)

Msc. Oviedo Pantoja Winston Germánico; Msc Saraguro Piarpuezán Ramiro; Msc. Cisneros Ruáles Marcelo; Msc. Vacas Palacios Santiago Marcelo; and Ing. Jarrín María Elisa, Universidad Técnica del Norte, Ibarra, Ecuador

ID 376 The Significance of Big Data in the Success of SMEs

Lawrance Seseni, Department of Quality and Operations, University of Johannesburg, Auckland Park, Johannesburg, 2006, South Africa
Charles Mbohwa, Department of Quality and Operations, University of Johannesburg, Auckland Park, Johannesburg, 2006, South Africa

ID 531 The use of computer-generated imagery in socialization media of biopore infiltration hole

Boldson Herdianto Situmorang and Tjut Awaliyah Zuraiyah, Computer Science Department, Faculty of Mathematics and Natural Sciences, Universitas Pakuan, Indonesia

ID 535 Using a Multimedia as an Effort to Improve Creative Thinking Skills of Elementary Teacher Education College Student

Yudhie Suchyadi, Nurlinda Safitri, Entis Sutisna, Elly Sukmanasa, Nita Karmila, Santa, Rukmini Handayani, Nintin Nurlela, and Mira Mirawati
Elementary Teacher Education, Universitas Pakuan, Bogor, Indonesia

ID 751 A Dynamic Business Modelling Approach to Design and Experiment New Successful Business Incubator Model for Indonesia

Lina Gozali, and Hetty Karunia Tunjungsari, Industrial Engineering Department, Engineering Faculty, Universitas Tarumanagara, Jakarta, Indonesia
Teuku Yuri M. Zagloel, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia
Docki Saraswati, Industrial Engineering Department, Universitas Trisakti, Indonesia
Benny Tjahjono, Industrial Engineering Department, Coventry University, UK

10:00 – 11:45 am, SUNDAY**Energy****Room 4**

Session Chair: Okeke Solomon, Papua New Guinea University of Technology, Papua New Guinea

ID 190 An Exploratory Analysis of Household Energy Consumption and Conservation

Paula Mae G. Reyes and Venusmar C. Quevedo, Industrial Engineering Department, Adamson University, Ermita, Manila, Philippines

ID 621 Analysis of the Performance of Thermoelectric Generators for Ambient Energy Generation through ANSYS Software

Saleh, A. U, Faculty of Electrical and Electronics Engineering, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia and Centre for Atmospheric Research, National Space Research and Development Agency, Prince Audu Abubakar University Anyigba, Kogi, Nigeria
S. A. Jumaat, Faculty of Electrical and Electronics Engineering, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
Johar Muhammad Akmal & W. A. W. Jamaludin, Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia Johor, Malaysia

ID 150 Analyzing Feasible Renewable Energy Policies: UAE Electricity Authorities

Mayyas Als Salman, Vian Ahmed & Sara Saboor, Department of Industrial Engineering, American University of Sharjah, Sharjah, United Arab Emirates

ID 188 Development of a Cereal Grain Drying System Using Internal Combustion Engine Waste Heat

Moses Jeremiah Barasa Kabeyi and Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 131 Design and Simulation of a Standalone PV System for a Mosque in NEOM City

Amani Alzahrani, Mashael A. Rajeh, and Shaima Banjar, Energy Engineering, College of Engineering, Effat University, Jeddah, 22332, KSA
Tayeb Brahimi, Energy and Technology Lab, College of Engineering, Effat University, Jeddah 22332, Saudi Arabia

ID 200 Dual Cycle Cogeneration Plant for an Operating Diesel Powerplant

Moses Jeremiah Barasa Kabeyi and Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 1076 Evaluation of Prospective Hydrocarbon Zones in Soedinc Field, Offshore Norway

Okeke Solomon, Didi Chekwube, Ngene Tochukwu, Oyekola Peter, Papua New Guinea University of Technology, Papua New Guinea

10:00 – 11:45 am, SUNDAY

Business Management

Room 5

Session Chair: Rajendra Baraiya, Indian Institute of Management, Indore, India

ID 814 An Investigation of Technology Advancement (Use of Smartphones) as Communication Tool in Supporting the Students Learning Style: A Case Study of Public High School, Jakarta, Indonesia

Tri Suryowidianti, Che Hasniza Che Noh, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 845 The Effect of Local Own-Source Revenue and Capital Expenditure on Economic Growth: An Empirical Evidence from Aceh Province, Indonesia

Mahdawi, Komaidi Notonegoro, Rinaldi Rustam, Department of Economic, Universitas Tri Sakti, Grogol, 11440, Jakarta Barat, Indonesia

Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Rapat Piter Sony Hutaeruk, Sri Winda Hardiyanti Damanik, and Aisyah Siregar, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 896 Analysis of Hotel Employee Retention Base on Demographic Characteristic during COVID-19 Pandemic in Indonesia

Munawaroh, Edi Abdurachman. Mohammad Hamsal, and Yosef Dedy Pradipto, Bina Nusantara University, Binus Business School, Doctor in Research Management, Indonesia

ID 921 The Challenges in Indonesia Poultry Industry Business

Puti Retno Ali, Machfud, Sukardi and Erliza Noor, Doctoral Program of Agroindustrial Engineering Department, IPB University, Bogor, Indonesia

Dwi Purnomo, Department of Agroindustrial Engineering, Padjajaran University, Bandung, Indonesia

ID 907 Employees' Depression, Anxiety and Stress Levels: An Assessment in Online Distance Learning and Work-From-Home Setup

Erlin Ivy O. Rago and Alein B. Navares, Department of Industrial Engineering, Cebu Institute of Technology – University, Cebu City, Philippines

ID 820 An Identification of Arabic Language Students' Attitudes and Achievements in Malaysian Public Universities

Che Mohd Zaid, and Kasyfullah Abd Kadir, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Mohammad Rusdi bin Ab Majid and Aznida binti Aziz, Institut Pendidikan Guru Kampus Dato' Razali Ismail, Kuala Terengganu, Terengganu, Malaysia

Mohd Ala Uddin Othman, Faculty of Languages and Communication, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 922 Transportation Cost Optimization Model for the Petroleum Industry

Rajendra Baraiya and Rohit Kapoor, Operations Management & Quantitative Techniques Department, Indian Institute of Management, Indore, India

Prabandh-Shikhar, Rau-Pithampur Road, Indore, Madhya Pradesh, India

Narain Gupta, Operations Management Department, Management Development Institute, Gurgaon, Gurugram, Haryana, India

March 7, 2021 (Sunday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, SUNDAY

Undergraduate Student Paper Competition

Room 1

Session Chair: Dr. Aldy Gunawan, Singapore Management University, Singapore

ID 256 Smart School Routing Problem for the New Normality

Carlos M. Leal-Garza and Carlos Gómez-Acosta, Industrial and Systems Engineering Program, University of Monterrey, San Pedro Garza Sada, N.L. México

Jenny Díaz-Ramírez, Engineering Department, University of Monterrey, San Pedro Garza Sada, N.L. México

ID 494 Flowshop Production Scheduling Using the CDS Method, Bat Algorithm, and Genetic Algorithms to Minimize Makespan at PT. Paku Gajah Mas

Tira Natasha and Lina Gozali, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 493 Flowshop Scheduling Using Cds Algorithm, Bat Algorithm, and Tabu Search Algorithm at PT. Dynaplast Jatake

Maria Fatima G. C. E., Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Faculty of Engineering, Universitas Tarumanagara, Jakarta, 11440, Indonesia

ID 486 Implementation of Project Management to Develop the AHA.002 Project (Multi Nut Runner Fly Wheel MC for AE 1 Machine) with PERT Method, Gantt Chart and QM for Windows V5 Software at PT. Matahari Megah

Aurellia Kharisty Tjusila and Lina Gozali, Dept. of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jakarta, Indonesia

ID 101 Routes Optimization with Cluster-Dependent Costs for Convenience Stores

Francisco Alejandro-Ugarte, Gianna Noemí Cárdenas-de la Fuente and Gloria Catalina García-Martínez, Engineering and Technologies Department, University of Monterrey, San Pedro Garza García, NL 66238, México
Jenny Díaz-Ramírez, Engineering and Technologies Department, University of Monterrey, Nuevo León, México

ID 555 Supply Chain Risk Management Strategies in the Face of COVID-19

Jia Yi Woong and Shao Hung Goh, School of Business, Singapore University of Social Sciences, Singapore

12:00 – 1:45 pm, SUNDAY**Lean Six Sigma****Room 2**

Session Chair: Abdussalam Shibani, Coventry University, Coventry CV1 5FB, UK

ID 194 Analysis of Grey model for Container Traffic Forecasting at Indian Major Ports

Vipulesh Shardeo, Anchal Patil, Ashish Dwivedi and Jitender Madaan, Department of Management Studies, Indian Institute of Technology Delhi, Hauz Khas, Delhi, India

ID 051 Application of Lean Six Sigma for Improving the Overall Equipment Effectiveness in a Semiconductor Company in the Philippines

Felix C. Veroya, School of Industrial Engineering and Engineering Management, MAPUA University, Intramuros, Manila 1002, Philippines
Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, MAPUA University, Intramuros, Manila 1002, Philippines

ID 449 Banish Waste in Warehouse Operations using Lean Matrix

Putu Dana Karningsih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Jawa Timur, Indonesia

ID 055 COVID-19 Surge Planning in Response to Global Pandemic in a Healthcare Setting: A Lean Six Sigma Approach

Pawan Bhandari, Department of Management Engineering and Consulting, Mayo Clinic, Rochester, Minnesota, USA
M. Affan Badar, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, Indiana, USA
Vincent Childress, Department of Graphic Design Technology, North Carolina A&T State University, Greensboro, North Carolina, USA

ID 514 Benefits and Challenges of Implementing Six Sigma “As a Process Improvement Management Strategy”

Abdussalam Shibani, Associate Professor in Construction and Project Management, Course Director PG Construction Management with BIM School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Hussein Chahine, M.Sc. Construction management, School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Messaoud Saidani, Associate Head of Research School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Dyaa Hassan, Researcher School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Araz Agha, Lecturer in building School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Nawal Gherbal, Engineering business and knowledge management, Coventry CV1 5FB, UK
Marwa Alghodi, Faculty of Science and Engineering, University of Wolverhampton, UK

ID 1268 Benefits and Applications of Lean Manufacturing Practices in Modern Industrial World

Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
Shakeel Ahmed Shaikh, Associate Professor & Co-director (Post Graduate Studies), Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

12:00 – 1:45 pm, SUNDAY**Operations Management****Room 3**

Session Chair: M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore-560012, India

ID 089 Economic Analysis of Liquid Loading Solutions in a Gas Well

Jonathan Francis, Institute of Petroleum Studies, IPS/ IFP School, France and University of Port Harcourt, Port Harcourt, Nigeria
Omowunmi Iledare, Ghana National Petroleum Corporation (GNPC) Professional Chair in Oil and Gas Economics and Management, Institute of Oil and Gas Studies, University of Cape Coast, Cape Coast, Ghana

ID 590 Effect of Risk Control as Moderator of Relationship Between Government Support, Training, Digital Marketing, Financial Capital and Performance of SMEs in Indonesia

Dede Ansyari Guci, Faculty of Economy, Universitas Prima Indonesia, Medan, North Sumatera Province, Indonesia
Dede Ansyari Guci, Puspa Liza Ghazali, Salman Lambak and Juliana Arifin, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengganu.Malaysia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 414 Examination of the relationship between Service climate, Employee satisfaction and Organizational performance: A case hospital

Ibrahim Kidoge, Department of Quality and Operations Management, University of Johannesburg, South Africa

ID 283 Identification of Employee Behavior through Communication Audit to Evaluate Employee Effectiveness

Theresia Intan Putri Hartiana, Communication Science Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
Lusia Permata Sari Hartanti, Industrial Engineering Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
Ig. Jaka Mulyana, Industrial Engineering Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia

ID 594 Life Insurance Premiums Dwiguna Joint Life and Last Survivor with Makeham Law

Hasriati, Haposan Sirait, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Riau University, Indonesia
 Agung Prabowo, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Jenderal Soedirman University, Indonesia
 Sukono, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Padjadjaran University, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 187 Multi-Criteria Decision Methods for the Development of Frameworks for Enhancing Key Parameters of Industrial Performance

Md. Tajul Islam, Md Shamsuzzoha Sarker, and A.R.M. Harunur Rashid, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Board Bazar, Gazipur 1704, Dhaka, Bangladesh

ID 043 Observations on New Initial Basic Feasible Solution (IBFS) Methods Published in the Literature for Transportation Problem

M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore-560012, India
 M. Vimala Rani, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur-721302, India

12:00 – 1:45 pm, SUNDAY**Maintenance and Reliability****Room 4**

Session Chair: Atef M.Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia

ID 480 The contribution of maintenance to improve the operational performance of an industrial process

Khanfri Nor El Houda, Touaher Hamed, Ouazraoui Nouara, Simohammed Antar and Bouabid Djamel, LRPI Laboratory, Health and Occupational Safety Institute, University of Batna-2, Batna, Algeria
 Sellami Ilyas, Department of Applied Engineering, KasdiMerbahUniversity-Ouargla, Algeria

ID 236 The Status of Hospital Maintenance Management: Result from Survey

Prasetyo Laksono, Gisty Ismapraga Melati, Duwi Retno Wulansari, and Fauzul Rezy Oenzil, Department of Industrial Engineering, University of Indonesia, Central Jakarta, Indonesia

ID 140 The Status of Maintenance Management in Indonesia: Result from a Pilot Survey Food Snack SMEs

Andri Gandhi, Dwi Rahayu Purwani, Yulia Dwi Susanti, and Yunita Prasetya, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 477 Fabrication and Optimization of Smoke Wind Tunnel

Roger Pui Chow Yen, School of Mechanical Engineering, Curtin University of Technology, Sarawak Campus, Sarawak, Malaysia
 Sarder Elius Sadique, Alumni, National University of Singapore, 9 Engineering Drive 1, Singapore

ID 218 Job Shop Scheduling Using Shifting Bottleneck Heuristic Algorithm Method

Bobi Tri Tamtomo and Dwi Agustina Kurniawati, Industrial Engineering Department, Faculty of Science and Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia
 Noordin Mohd. Yusof and Wong Kuan Yew, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

ID 037 Manufacturing Process and Mechanical Properties of Hemp Reinforced PLA Composite: A Review

Praveen Kumar Azad and Rishabh Rathore, Department of Mechanical Engineering, Delhi Technological University, Delhi, India
 Department of Production and Industrial Engineering, Delhi Technological University, Delhi, India
 Ranganath. M. Singari and Ravi Butola, Department of Mechanical Engineering, Delhi Technological University, Delhi, India
 Department of Production and Industrial Engineering, Delhi Technological University, Delhi, India

ID 600 Overview of Hydroforming Research with Bibliometric Indicators

Atef M.Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
 Wadea Ameen, Industrial Engineering Department, College of Engineering and Architecture, AL Yamamah University, Riyadh-11512, Saudi Arabia.
 Moath Alatefi, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
 Abdallah Alrshdan, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh, Saudi Arabia

12:00 – 1:45 pm, SUNDAY**Operations and Processes****Room 5**

Session Chair: Rafat Mahmud Hridoy, Khulna University of Engineering & Technology, Bangladesh

ID 997 A Study of Non-Medical Impact on Mitigation Policy of ASEAN Countries against COVID-19

Amni Zarkasyi Rahman, Teuku Afrizal, Department of Public Administration, Universitas Diponegoro, Semarang, Indonesia
 Fendy E. Wahyudi, Department of International Relations, Universitas Diponegoro, Semarang, Indonesia
 Widiartanto, Department of Business Administrations, Universitas Diponegoro, Semarang, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 855 A Study of Academic, Practitioner and Accounting Students' Perception toward Expertise Accounting Forensic using Deductive Analysis: A Case study of Semarang State Universities, Indonesia

Muhammad Wildan Sholih and Imam Prayogo, Diploma of Financial Accounting, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
 Annisa Qurrota A'yun, Diploma of Strategic Management, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
 Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 963 A Study of Smart Technology Utilization and Mandarin Language Instruction

Nurul Ain Chua Binti Abdullah, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1002 A Literature Review of Political Psychology, Political Leaders and Personal Qualities: Mini-Review Approach

Adi Suryo, Siti Nazilah Mat Ali, and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Zainal Abidin, Faculty of Psychology, Universitas Padjadjaran, Jatinangor-Sumedang 45363, West Java, Indonesia

ID 961 The Effect of Job Stress and Job Motivation toward Employee Performance

Vira Destianti, Mahendra Fakhri, Putu Nina Madiawati, Ida Nurnida, and Alex Winarno, School of Communication and Business, Telkom University, Indonesia

ID 677 The Effectiveness of Blended Learning Model Integrated with Inquiry-based Learning Framework in Understanding Pre-service Elementary School Teachers' Social Competence

Farid Ahmadi, Universitas Negeri Semarang, Semarang, Indonesia

Reza Rachmadtullah, Universitas PGRI Adi Buana, Surabaya, Indonesia

Barokah and Imam Shofwan, Universitas Negeri Semarang, Semarang, Indonesia

ID 926 Implications of TPM in Domestic Based Ready Made Garments Industry in Bangladesh during Corona Pandemic: A Case Study

Rafat Mahmud Hridoy and Nourin Mohsin, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology
 Md. Ariful Alam Department of Industrial and Production Engineering Bangladesh Army University of Science and Technology, Bangladesh

March 7, 2021 (Sunday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, SUNDAY

Undergraduate Student Paper Competition

Room 1

Session Chair: Dr. Aldy Gunawan, Singapore Management University, Singapore

ID 563 Improving a Manual Operated Household Irrigation System for Efficient Operation Using an Irrigation System Controller

TMM Gora and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 565 Improving the ventilation system of an air-conditioning system in a five-star hotel at Ezulwinini kingdom Eswatini

MT Shabangu and PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 489 Layout of Raw Material Warehouse in PT. Boga Dimsum Indonesia Using Class-Based Storage Method and Promodel Simulation

Evelyn Adisurya, Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11140, Indonesia

ID 566 Optimizing the flow rate of water from a chiller system for efficient operation

L. V Motloung and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 781 Diagnosis and music therapy for Autism Children

Johsual Thiveniya Sathiyamoorthy and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, Colombo-06, Sri Lanka

ID 760 Developing a seawater electric generator by carbon nanotubes from sludge and nanocelluloses from sawdust to be a new alternative energy

Supaporn Klabklaydee, King Mongkut's University of Technology Thonburi, Department of Environmental engineering, Faculty of engineering, Thailand

2:00 – 3:45 pm, SUNDAY

Business Management

Room 2

Session Chair: Sobhi Mejjiaoui, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

ID 331 Company Value Measurement through Intellectual Capital and Firm Size

Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, West Java 40132, Indonesia

Eriana Astuty, Iston Dwija Utama and Ivan Diryana Sudirman, Entrepreneurship Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia

ID 620 Does Social Media affect Banking Industry Financial Performance in Indonesia

Isfenti Sadalia and Fadli, Department of Management, Universitas Sumatera Utara, 20222 Medan Baru, Medan, Sumatera Utara, Indonesia
 Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, 24355 Muara Satu, Aceh Utara, Aceh, Indonesia

Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, 20631 Tebing Tinggi, Sumatera Utara, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Debi Eka Putri, Sekolah Tinggi Ilmu Ekonomi Sultan Agung, 21145 Pematang Siantar, Sumatera Utara, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 560 Does the Procedural Justice affect Turnover Intention of Academic Staff in Malaysian Research Universities?

Noor Azlina Yusoff, Mohd Yusoff Yusliza, Jumadil Saputra, and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 617 Examining the Effect of Operating Cash Flow on Financial Distress: An Evidence from Indonesian State-Owned Enterprises (SOEs)

Aminullah Assagaf, Mohd Hassan Che Haat, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 795 One Stop Service: A Way to Reform Public Service

Kasmad Kamal, Muhammad Ardiansyah Makmur, Andi Ni'mah Sulfiani and Syamjaya SM, Faculty of Social and Politic Science, Andi Djemma University, Palopo, South Sulawesi, Indonesia

ID 239 Branch Network Optimization Model following Two Banks Merger

Sobhi Mejjiaoui, Industrial Engineering Department, Alfaisal University, Riyadh, KSA
 Sara Qanaq, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

2:00 – 3:45 pm, SUNDAY

Quality Control

Room 3

Session Chair: Reem Adel Abdallaha, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates

ID 034 Potential effectiveness of quality tools and techniques to introduce Total Quality Management (TQM) in ready-made garment (RMG) manufacturing industries in Bangladesh

Md Mazharul Habib (PhD student), Michele Cano (DoS, Senior Lecturer), Evi Viza, (Sr. Lecturer) and Andishes Bakhshi (Teaching Fellow), Department & University: School of Computing Engineering and Physical Sciences (CEPS), University of the West of Scotland (UWS), Paisley, UK

ID 326 Scrutinizing the Viscosity Measures of Two Formulations of Face Cream Light: An Application of Statistical Quality Control in a Cosmetic Company

Dyan C. Gonzales-Rodriguez, Lawrence C. Alenia, Michaela Marie M. Cruz, and Alexis C. Flores, Industrial Engineering Department, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 483 A Review on Input Features for Control Chart Patterns Recognition

Waseem Alwan, Adnan Hassan and Nor Hasrul Akhmal Ngadiman, Department of Materials, Manufacturing and Industrial Engineering, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Skudai, Johor Bahru, Malaysia

ID 324 X-bar control chart patterns identification using Nelson's run rules

Munawar Zaman and Adnan Hassan, Department of Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor 81310, Malaysia

ID 378 Service Quality Assessment of an Academic Library in Thailand Using SERVQUAL

Tyas Wahyu Pramesti, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 334 Service Quality Improvement Design for Business Trading License in Electronic Integrated Licensing Service

Kiki Rizki Yunita, M. Dachyar, and Djoko Sihono Gabriel, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 410 An Application of EWMA Control Chart for Monitoring Packaging Defects in Food Industry

Reem Adel Abdallaha, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates
 Salah Haridyb, Mohammad Shamsuzzamanc, and Hamdi Bashird, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates and Benha Faculty of Engineering, Benha University, Benha, Egypt
 Ahmed Magede, Department of Systems Engineering and Engineering Management, City University of Hong Kong, Kowloon, Hong Kong, China
 Benha Faculty of Engineering, Benha University, Benha, Egypt

2:00 – 3:45 pm, SUNDAY

Engineering Education

Room 4

Session Chair: John Paul M. Nieves, Mapúa University, Manila, Philippines

ID 274 Foreign Aid Mediates the Relationship between Education and Poverty Reduction Strategy Implementation: Case of Chad republic

Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
 Abd Rahman Ahmad, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
 Ganama Moustapha Guerne, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 185 A Review on Virtual Reality for Architecture Education

Hala Sirror, Amal Abdelsattar, Salma Dwidar and Amani Derbali, Architecture Department, Prince Sultan University, Riyadh, Saudi Arabia

ID 181 A Systematic Review on Disaster Resilience Knowledge for Built Environment Professionals

Nishadi Buddhika Nanayakkara and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

ID 116 PC Assembly Instruction with AR on Smartphone App

Frederic Chen Qian Ken, Gan Zhi Lon and S. Nurmaya Musa, Department of Mechanical Engineering, Faculty of Engineering, University of Malaya, 50603 Kuala Lumpur, Malaysia

ID 343 The LogiLegoLab: A Problem-based Learning Approach for Higher Education Institutions

Jakob Kompatscher, Manuel Woschank, Chair of Industrial Logistics, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria
Corina Pacher, Resources Innovation Center, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria

ID 830 Business Intelligence And Sinta Analytics to Improve Indonesian National Research in Education 4.0 Era

Untung Rahardja, Qurrotul Aini, Ninda Lutfiani and Eka Purnama Harahap, Magister of Information Technology Departement, University of Raharja Tangerang, Indonesia
Efa Ayu Nabila, Information System Departement, University of Raharja, Tangerang, Indonesia

ID 883 A Case Study on the Pre-Career Activities and Its Effects on the Career Success of College Graduates

John Paul M. Nieves, Chols Q. Miso, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

2:00 – 3:45 pm, SUNDAY**Engineering Management****Room 5**

Session Chair: Abror Hoshimov, Politecnico di Torino, Corso Duca Degli Abruzzi 24, 10129 - Torino – Italy

ID 967 Approaches and Strategies of Upgrading Informal Settlements: Learning from Policy and Practice in the City of Ekurhuleni, Gauteng Province

Lungani Makhaye, Trynos Gumbo, Eric Makoni and Nischolan Pillay, Department of Town and Regional Planning, University of Johannesburg, South Africa

ID 876 Accident Hotspots Situation and Potential Countermeasures Development in Tunisia

Ouni Fedy, Department of transportation and logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Sousse, Tunisia
Mariem ALLOUCH, PhD student, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia

ID 969 Modeling the Influence of Hazardous Road Section Features on Road Traffic Accident Occurrence in Tunisia

Attig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia
Ouni Fedy, Department of Transportation and Logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Tunisia
Harizi Riadh, Department of Business Administration, University of Bisha, Bisha, Saudi Arabia, College of Business, Bisha, Saudi Arabia

ID 893 Situational Awareness in Indoor Emergency Response for First Responders: A Bibliometric Approach

Asep Id Hadiana, Safiza Suhana Kamal Baharin and Zahriah Othman, Center of Advanced Computing Technology (CACT), Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka, Melaka, Malaysia

ID 837 Calculation of the Timelife in HDPE Pipe With a Crack.

Latifa Alimi, Kamel Chaoui, and Khoulood Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria
Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, Annaba, Algeria
Kamel Chaoui, Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, PO Box 12, Annaba 23000, Algeria
Khoulood Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria

ID 804 Assessing the Impact of Road Maintenance Investment to Commuter Safety in a Developing Country Using System Dynamics: The Case of Metro Cebu, Philippines

Francis L. Mayo, Department of Industrial Engineering, University of San Carlos, Cebu City, Philippines
Evelyn B. Taboada, Department of Chemical Engineering, University of San Carlos, Cebu City, Philippines

ID 894 Impacts of Digital Technologies on Supply Chain Performance: a System Dynamics Approach

Abror Hoshimov, Department of Management and Production Engineering, Politecnico di Torino, Corso Duca Degli Abruzzi 24, 10129 - Torino – Italy and Department of Aerospace and Mechanical Engineering, Turin Polytechnic University in Tashkent, Tashkent - Uzbekistan
Mahsa Mahdavishtarif and Anna C. Caglianoa, Department of Management and Production Engineering, Politecnico di Torino, Corso Duca Degli Abruzzi 24, 10129 - Torino – Italy

March 7, 2021 (Sunday) - Session: 4:00 – 4:45 pm**4:00 – 5:45 pm, SUNDAY****Undergraduate Student Paper Competition****Room 1**

Session Chair: Dr. Aldy Gunawan, Singapore Management University, Singapore

ID 800 Analysis of Green Supply Chain Management Practice in Oman Hotel Industry

Buthaina Alqassabi, Ayman Almahrooqi, Aws Alhajri and Sujana Piya, Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Oman

ID 567 Improving centrifugal pumps seals to prevent leakage during operation

T. Mphahlele and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa
M. Pitac, Department of Mechanical Engineering, Faculty of Engineering and Technology, University of South Africa

ID 564 Improving Dam Capacity Using a Dredger to Remove Sediment and Prevent Environmental Pollution during the Recovery Process

Khanyisile Mokele and Peter Baonhe Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark, 1900, South Africa

ID 1133 Evaluating the Industry 4.0 Readiness of Manufacturing Companies: A Case Study in Kuwait

Estabraq Mohammad, Loulwah AlBarakah, Sarah Kudair, and Abdullah S. Karaman, College of Engineering and Technology, Department of Industrial Engineering, American University of Middle East, Kuwait

ID 1153 Optimization for Decision of Funding Project in PT X

Octa Bimansyah Untoro, Nina Salsabila Sulistiani, Sayyidah Maulidatul Afraah, Qonita Puteri Andrianing Mumtaza, Muhammad Hisjam, and Roni Zakaria Raung, Department of Industrial Engineering, Universitas Sebelas Maret, Jebres, Surakarta, Central Java 57126, Indonesia

ID 1168 Lean Purchasing of MRO Supplies in a Philippine Coal-Fired Power Plant: A Portfolio Thinking Approach

Marvin I. Noroña, Master in Business Administration, Bachelor of Science in Industrial Engineering, University of the Philippines, Philippines
Sarah Jane D. Taleon, Master of Engineering – Industrial Engineering, MAPUA University, Philippines

4:00 – 5:45 pm, SUNDAY**Women in Industry and Academia (WIIA) Panel****Room 2**

Panel Chair

Dr. Tay Huay Ling

Senior Lecturer

School of Business

Singapore University of Social Sciences

Panel Speakers

Dr. Cheng Ling Tan Associate Professor Graduate School of Business Universiti Sains Malaysia Penang, Malaysia	Dr. June Tay Head of Digital Media Programme School of Science and Technology Singapore University of Social Sciences (SUSS) Singapore
Ms. Sim Bee Hia CEO Food from the Heart Singapore	FANG Eu-Lin PwC Singapore Partner, Sustainability & Climate Change Leader

4:00 – 5:45 pm, SUNDAY**Modeling and Simulation****Room 3**

Session Chair: Dr. Qutubuddin S.M., P.D.A. College of Engineering, Gulbarga, Karnataka State, India

ID 460 A Causality Analysis Framework for Analyzing the Retail Consumer Behavior Change In Covid-19 Pandemic

Atikah Aghdhi Pratiwi Diesta Iva Maftuhah, Naning Aranti Wessiani, Sri Gunani Partiwi, and I Ketut Gunarta, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 572 Designing an efficient and stable household Irrigation system

PB Sob, Department of Mechanical, Engineering, Faculty of Engineering, and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 588 Designing of Automated Controlled Irrigation System for Domestic Application

PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 233 Discrete Event Simulation Approach for Container Terminal Loading and Unloading Productivity Evaluation

Nurhadi Siswanto, and Atika Tri Wahyuningsih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 402 Improvement in Harmonic Distortion using Seven level H-Bridge VSI Topology based Dynamic Voltage Restorer

K Chandrasekaran, Assistant Professor, University Tunku Abdul Rahman, Kampar, Malaysia
V.K. Ramachandaramurthy, University Tenaga Nasional, Bangi, Malaysia

ID 613 IMPROVING THE PERFORMANCE OF A CHILLER SYSTEM DURING OPERATION

PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

4:00 – 5:45 pm, SUNDAY**Supply Chain****Room 4**

Session Chair: Fatima Zahra Dabaj, ENSAM School, Moulay Ismail University, Al Mansour, Meknes, Morocco

ID 301 Evaluation and Selection of Freight Forwarder for Excavator Manufacturer in China with Adjustment on Regional Specification and Situational Analysis Using STEEP-AHP-TOPSIS

Gerald Giovanni Raditya Gita and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 193 Humanitarian logistics performance improvement model using blockchain approach

Anchal Patil, Vipulesh Shardeo, Ashish Dwivedi and Jitender Madaan, Department of Management Studies, Indian Institute of Technology Delhi, New Delhi, India

ID 457 Hybrid Rice seed supply Chain- SeedWorks Supply Chain innovation

Raja Vadlamani, SeedWorks International pvt Ltd Hyderabad, Telengana, India

ID 401 Implementation Technologies of an Advanced Cloud-based System for Distribution Operations

Sotiris P. Gayialis, Evripidis P. Kechagias, Angeliki Deligianni, Grigorios D. Konstantakopoulos, and Georgios A. Papadopoulos, Sector of Industrial Management and Operational Research, School of Mechanical Engineering, National Technical University of Athens, Zografos, 15780, Greece

ID 461 Influencing Determinants of Halal Land Cross-Border Clearance Operation in Malaysia

Fefiana Azureen Hamdan, Malaysia Institute of Transport, Universiti Teknologi MARA (UiTM), Shah Alam, 40450, Malaysia
Shahrin Nasir, and Harlina Suzana Jaafar, Centre for Technology and Supply Chain Management Studies, Faculty of Business and Management, Universiti Teknologi MARA (UiTM), Shah Alam, 40450, Malaysia

ID 423 Location Design of Electric Vehicles Charging Facility: Distance-Based Method Approach

Ananda Vania Arisa Putri, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology and Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 213 Integrating maintenance to dynamic production planning: Case of composites industry

Fatima Zahra Dabaj, Latifa Ouzizi, Youssef Aoura, and Mohamed Douimi, ENSAM School, Moulay Ismail University, Al Mansour, Meknes, Morocco

4:00 – 5:45 pm, SUNDAY**Operations Excellence****Room 5**

Session Chair: Tamzeed Ahmed Alvy, Department of Mechanical and Production Engineering (MPE), Islamic University of Technology, OIC, Bangladesh

ID 819 A Study of Pedagogical Knowledge and Teaching Creativity among Arabic Language Teachers in Malaysia

Mohammad Rusdi Bin Ab Majid, Institut Pendidikan Guru Kampus Dato' Razali Ismail, 21030 Kuala Terengganu, Terengganu, Malaysia
Che Mohd Zaid, and Kasyfullah Abd Kadir, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Zawawi Bin Ismail, Faculty of Education, University of Malaya, 50603 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia
Mohd Ala Uddin Othman, Faculty of Languages and Communication, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 831 Active Blended Learning in the Teaching of Chinese as Foreign Language: Facing Pandemic Challenge

Goh Ying Soon, Universiti Teknologi MARA Terengganu, 23000 Kuala Dungun, Terengganu, Malaysia
Nurul Ain Chua Binti Abdullah and Che Mohd Zaid Yusof, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1008 The Effect of Knowledge Management on Employee Performance at Indonesian Private Company

Mahir Pradana, Syarifuddin, Wahyu Ilham Nugroho, Tri Indra Wijaksana, Diki Wahyu Nugraha, Telkom University, Politeknik Pos Indonesia

ID 959 Transformational Leadership Utilization and Job Stress Analysis to Increase Employee Performance

Dharma Jaya, Mahendra Fakhri, Ida Nurnida, Bachruddin Saleh Luturlean, Alex Winarno, School of Communication and Business, Telkom University, Indonesia

ID 933 The Effect Of E-Service Quality And E-Trust On E-Customer Loyalty Through E-Customer Satisfaction As An Intervening Variable (Study On Gopay Users In Bandung)

Sarah Rahmawaty, Department of Business Administration, Telkom University, Bandung, Indonesia
Budi Rustandi Kartawinata, Department of Business Administration, Telkom University, Bandung, Indonesia
Aldi Akbar, Politeknik Piksi Ganesha Bandung, Jalan Jend. Gatot Subroto No. 301, Bandung 40274, Indonesia
Tri Indra Wijaksana, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia

ID 874 A Review of Patient Satisfaction and Anaesthesia Services Literature: Mini-Review Approach

Muhammad Dwi Satriyanto, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1000 Review: Nanofluids Based Coolant Application in Automobile Radiators

Tamzeed Ahmed Alvy, Department of Mechanical and Production Engineering (MPE), Islamic University of Technology, OIC, Bangladesh

March 7, 2021 (Sunday) - Session: 6:00 – 7:45 pm

6:00 – 7:45 pm, SUNDAY

Manufacturing and Control

Room 1

Session Chair: Gladysa Valerie, BINUS University - Universitas Bina Nusantara (Binus). Jabodetabek, Indonesia

ID 701 Electromagnetic Improvement of Interior Permanent Magnet Synchronous Motor for VinFast Escooter V7

Bui Minh Dinh and Nguyen Quang Dich, ĐH Bách khoa Hà Nội, HUST, Vietnam

ID 708 Implementation of sustainable manufacturing in Indonesia paint industry based on triple bottom line

Gun Nanda Tian Purnama, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercubuana, Jakarta, Indonesia

ID 768 Improving Torque Performance of Switched Reluctance Motor By Stator and Rotor Embrace Design

Bui Minh Dinh, and Dinh Hai Linh, School of Electrical Engineering, Hanoi University of Science and Technology (HUST), Vietnam

ID 867 The Emerging of Dynamic Capabilities for Socially Responsible Operations and Innovation Development in The COVID-19 Pandemic Situation

Hadi Purnomo, Universitas Gadjah Mada (UGM), Universitas Kristen Immanuel (UKRIM), Indonesia

Wakhid Slamet Ciptono, Universitas Gadjah Mada (UGM), Indonesia

Hargo Utomo, Universitas Gadjah Mada (UGM), Indonesia

ID 886 Preparedness of Philippine Aviation in Implementing Automatic Dependent Surveillance – Broadcast (ADS-B) System

Rosemarie J. Tan and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 877 Developing Safety Leadership in Indonesian Power Plant

Dedy, Department of Health Safety & Environment, PT Pembangunan Jawa Bali, Surabaya, Indonesia

Rita Ambarwati, Faculty of Business Law and Social Science, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

ID 1038 Analisis Risiko Supply Chain Dengan Model House of Risk (HOR) Pada Digitalisasi Warung Tegal

Gladysa Valerie, BINUS University - Universitas Bina Nusantara (Binus). Jabodetabek, Indonesia

6:00 – 7:45 pm, SUNDAY

Business Management

Room 2

Session Chair: Wenny Desty Febrian, Faculty of Business and Social Sciences, Universitas Dian Nusantara, Tanjung Duren, West Jakarta, Indonesia

ID 688 The Moderating Role of Economic Stimulus to the Factors that affect Financial Distress: An Evidence from Jakarta Stock Exchange Listed Companies, Indonesia

Yoyo Sudaryo, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 698 The Relationship between Human Capital and Co-opetition Strategy in Small Medium Enterprise: Literature Review

Cucu Wahyudin, Universitas Pendidikan Indonesia, Universitas Jenderal Achmad Yani Cimahi, Indonesia

Syamsul Hadi Senen, and Rofi Rofaida, Universitas Pendidikan Indonesia

ID 711 Modelling Pro-environmental Behaviour in the Workplace: A Preliminary Study

Mohd Yusoff Yusliza, Juhari Noor Faezah, Nik Hazimah Nik Mat, Jumadil Saputra, Zikri Muhammad and Aina Syuhaila Muhamad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

T. Ramayah, School of Management, Universiti Sains Malaysia, 11800 USM, Penang, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 712 Green Human Resource Management and Sustainable Organization Literature: A Mini-Review Approach

Theresia Marditama, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 723 A Review of Determinant Factors that Affect Purchase Decision and Consumer Satisfaction Literature

Supana, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 727 A Review of Customer Lifetime Value, Marketing Mix and Brand Equity Literature

Niknik Ahmad Munawar, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 728 Analysing the Effect of Job Satisfaction, Work Discipline, Motivation and Competency on Employee Performance: An Evidence from Indonesia Fire Department

Wenny Desty Febrian, Faculty of Business and Social Sciences, Universitas Dian Nusantara, Tanjung Duren, West Jakarta, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

6:00 – 7:45 pm, SUNDAY**Undergraduate Research Competition****Room 3**

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 276 CAD Aided Pre-operative Planning and Prototyping of Cubitus Varus Cutting Guide

Leonardo Frizziero, Gian Maria Santi, Giampiero Donnici, Alfredo Liverani, Francesca Napolitano, Paola Papaleo and Curzio Pagliari, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, 40136 Bologna, Italy
Giovanni Trisolino, Elena Maredi, Stefano Stilli, Diego Antonioli, Paola Zarantonello and Stefano Stallone, IRCSS–IOR – Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, Italy

ID 275 CAD Aided Pre-Operative Planning and Prototyping of Orthopaedic Femoral Cutting Guide

Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Paola Papaleo, Francesca Napolitano and Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna 40136, Italy
Giovanni Trisolino, Elena Maredi, Stefano Stilli, Giovanni Luigi Di Gennaro, Paola Zarantonello and Stefano Stallone, IRCSS – IOR—Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, Bologna 40136, Italy

ID 277 CAD-Aided Preoperative Simulation in Complex Orthopaedic Suregery

Leonardo Frizziero, Curzio Pagliari, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Paola Papaleo and Francesca Napolitano, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, BO 40136, Italy
Giovanni Trisolino, Paola Zarantonello, Giovanni Luigi Di Gennaro, Elena Maredi, Stefano Stilli, and Stefano Stallone, IRCSS-IOR-Rizzoli Orthopaedic Institute, Pediatric Orthopedics and Traumatology, Bologna, BO 40136, Italy

ID 512 Design of Working Shelf And Design of Layouts on the Working Table with Ergonomic Analysis in Haiso Coffee

Fernando Valentino, Frans Jusuf Daywin, Adianto, Lina Gozali, and Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia
Agustinus Purna Irawan, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia

ID 487 Improving the Capacity of Espresso Machine Using Reverse Engineering Method and VDI 2221 Method

Claudia Jessica Atmadja, Frans Jusuf Daywin, Lina Gozali, and Carla Olyvia Doaly, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia
Agustinus Purna Irawan, Mechanical Engineering Department, Tarumanagara University, Jakarta, Indonesia

ID 491 Modification Design of Melanger Machine with Reverse Engineering Method and VDI 2221

Kezia Natalia Santoso, Frans Jusuf Daywin, Adianto, Lina Gozali, Carla Olyvia Doaly, and Agustinus Purna Irawan, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia

ID 490 Modification of Chocolate Grinder Machine Cone Type Using Reverse Engineering Method and Vdi 2221 Method

Jeshua Ekklesia, Frans Jusuf Daywin, Adianto, Lina Gozali, Carla Olyvia Doaly and Agustinus Purna Irawan, Industrial Engineering Department, Universitas Tarumanagara, Jakarta 11440 Indonesia

ID 749 Green Supply Chain Operations Reference (G-SCOR): An Application for Small Garment Manufacturers in the Philippines

Valerie D. Cruz, Josephine D. German, and Mary Elaine G. Fenix, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 859 An Ergonomic Intervention on Metal Fabrication Workstations to Minimize the Risk of Developing Work-related Musculoskeletal Disorders

Samantha Nicole C. Alanano, Johna C. Ferolino, Juan Miguel A. Miranda, and Justine Ray V. Palattao, and Hazel A. Caparas, Industrial Engineering Department, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 895 Lean Manufacturing Practices and Their Effect on Sustainability Performance: Insight from Selangor Manufacturing Industry

Woei-Xiang Tan, Department of Production and Operations Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Norasmiha Mohd Nor, Department of Production and Operations Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1119 Industry 4.0 Smart Predictive Maintenance in the Oil Industry to Enable Near-Zero Downtime in Operations

Wejdan Al-Subaiei, Esraa Al-Herz, Wadhha Al-Marri, Rawan Al-Otaibi, Hessah Ashyan, and Hadi Jaber, College of Engineering and Technology, American University of the Middle East, Kuwait

ID 1169 Developing Information System of Remnant Product Using Waterfall Method with Macro Microsoft Excel

Benedicta Amadea Karina Dewi, Ryan Adesta Yudhatama, Veny Mandasari, Kartiko Alfa Kusriandi, Cucuk Nur Rosyidi, Muhammad Hisjam, and Roni Zakaria Raung, Department of Industrial Engineering, Universitas Sebelas Maret, Jebres, Surakarta, Central Java 57126 Indonesia

ID 1222 Examining Adoption of Smart Digital Marketing among Auto Car Dealers in Miri City, East Malaysia

Yap Gui Yik and Mehran Doulatabadi, School of Management and Economics, Xiamen University Malaysia, Sepang, Selangor, Malaysia

6:00 – 7:45 pm, SUNDAY**Business Management****Room 4**

Session Chair: Saoussan Bouchareb, Mohammadia School of Engineering, Mohammed V University, Rabat, Morocco

ID 726 Server Virtualization Framework for Amhara Health Bureau, Ethiopia.

Hailemariam Admasu, School of Informatics, Hawassa University, Hawassa University, Ethiopia
 Workshet Lamenew, School of Information Science, Addis Ababa University, Addis Ababa, Ethiopia
 Sisay Msganaw, Information Science Department, Assosa University, Ethiopia, Assosa, Ethiopia

ID 744 A Review of Resilience and Well-being in Human Resource Management Perspective Literature

Netty Merdiaty, Khatijah Omar, and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu
 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 767 Improve Quality Aircraft Simulation Training in Indonesia using DMAIC Six Sigma Methods

Danang Ary Yunanto, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
 Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia
 Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 769 A Review of the Driving Factors that affect Job Performance Literature: A Mini-Review Approach

Nunuh, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 773 An Investigation of Psychological and Spiritual Wellbeing among Costal Community in Terengganu, Malaysia

R Zirwatul Aida R Ibrahim, Jumadil Saputra, Mazidah Mohd Dagang, Madihah Mohamad Shukri, and Rosyidah Muhamad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 777 The Influence of Work Motivation and Organizational Culture to Employee Performance

Syardiansah, Abdul Latief and Jefri Ramadansyah, Management Study Program, Faculty of Economics, Universitas Samudra, Aceh, Indonesia
 Hadion Wijoyo, STMIK Dharmapala Riau, Indonesia
 Ahmad Prayudi, Management Study Program, Faculty of Economics and Business, Universitas Medan Area, North Sumatra, Indonesia
 Riyan Sisiawan Putra, Universitas Nahdlatul Ulama Surabaya, Indonesia
 Musnaini, Universitas Jambi, Indonesia

ID 780 Implementation of Consolidation Strategy to Improve Procurement Performance in Government Hospital (A Case Study: Joglosemar Central Vertical Hospital)

Hery Suliantoro, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia
 Kirana Rukmayuninda Ririh, Research Centre for Policy and Management of Sciences, Technology and Innovation, Indonesian Institutes of Sciences, Jakarta, Indonesia
 Sultan Arunizal, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 406 Modeling the volatility of four Mediterranean stock markets

SaoussanBouchareb, Mohammadia School of Engineering, Mohammed V University, Rabat, Morocco

6:00 – 7:45 pm, SUNDAY**Senior Design Project / FYP Competition****Room 5**

Session Chairs: Mr. Chee Wai Meng and Dr. Dixon So Lok Kan, Singapore University of Social Sciences, Singapore

ID 507 An Ergonomic Approach to Design Restaurant Dinning Table During the Covid-19 Pandemic for Indonesian Society

Monica Aprillita, Cherry Atmodjo, Michael Kartawijaya, Nicholas Adrian, Frans Jusuf Daywin, Lina Gozali, Adiarto and Agustinus Purna Irawan, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 505 The Design Development of an Ergonomic Public Trash Bin for COVID-19 Medical Mask Waste

Stevie Joes, Caroline De Candra, Herwin Larsen, Dennis Marchello, Frans Jusuf Daywin, Lina Gozali, Adiarto, Ahmad, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 506 The Design of Instant Desk Cleaner for Public Facilities during Pandemic Era

Stiven Tjen, Theodorus Henderson, Vanessa Angelica Budiono, Nicolas Reynaldo, Frans Jusuf Daywin, Lina Gozali, Adiarto and Agustinus Purna Irawan, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 1156 The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency

Nasser Khalfan Al-Wahaibi, Abdulaziz Khalfan Al-Mamari, Qabas Salah Al-Rawas and Nasr Al Hinai, Sultan Qaboos University, Oman

ID 1170 Designing an Inventory Information System at PT.X

Muhammad Faishal Thariq, Akbar Rizal Nurhidayat, Salsabila Fajari Kur'anitya, Savitri Kusumaning Ayu, Cucuk Nur Rosyidi, Muhammad Hisjam, and Roni Zakaria, Department of Industrial Engineering, Universitas Sebelas Maret, Jebres, Surakarta, Central Java 57126, Indonesia

ID 1129 An Integrated Project Design for Improving the Performance of Small and Medium Enterprise: A Case Study for SME Mushroom

Sakinah, Dian Aprilia Larasati, Mochammad Brilliant Wicaksana Sukananda, and Ranu Tri Widodo, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Muhammad Hisjam, and Roni Zakaria Raung, Lab. of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1176 Proposed Design of Ergonomic Roof Tile Transportation Equipments in Bekonang Roof Tile Company

Amirul Wika Rosida, Dwi Puji Astuti, Farhan Al Azhar Widyaputra, Widya Puspitasari, R. Hari Seyanto, Muhammad Hisjam, and Roni Zakaria, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1190 Determination Passenger Satisfaction of a Kuwait Airline Company by Using Multivariate Data Analysis Models

Ayat Dashti, Danah AlAhmad, Eman AlShammeri, Rawan AlAjlan, Zainab AlAmeer, and Recep Kizilaslan, College of Engineering and Technology, American University of Middle East (AUM), Kuwait

ID 129 Improving Waste Collection & Transportation System at Tadweer

Khadija Alhmoudi, Shamma Al-Ali, Roudha Alattar, and Khalid Alhosani, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, UAE

March 7, 2021 (Sunday) - Session: 8:00 – 8:45 pm

KEYNOTE

Dr. Mario Fagnoli

Technical Director, Italian Ministry of Agriculture
Contract Professor at Faculty of Civil and Industrial Engineering
Sapienza University of Rome, Italy

March 7, 2021 (Sunday) - Session: 9:00 – 10:30 pm

9:00 – 10:30 pm, SUNDAY

Modeling and Simulation

Room 1

Session Chair: Pramot Thongman, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 251 Mathematical Modeling and Analysis the Effect of Smoking for the Dynamics of Lung Cancer

Jobayer Ahmed and Md. Haider Ali Biswas, Mathematics Discipline, Science, Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 151 Mathematical Modeling and Optimal Control Strategies for the Treatment of Breast Cancer

Tahera Parvin and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 160 Metamodeling in Manufacturing Systems: Literature Review and Trends

Chiara Raith, Manuel Woschank, and Helmut Zsifkovits, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

ID 222 Modeling Electricity Tariff Scheme for Gas Engine Power Plant by Considering Operation Risks

Nurhadi Siswanto, Firda Nur Rizkiani, and Stefanus Eko Wiratno, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 472 Thermal Simulation and Experiment Evaluation of Active Antenna Unit AAU 5G/RRU 4G

Bui Minh Dinh, Nguyen Chi Cong, HUST, Hanoi, Vietnam

ID 133 Production Sequence Using Simulation Techniques: Case Study of Mineral Production Plants for Dairy Cow

Pramot Thongman and Nara Samattapapong, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand
Vorasiri de Cadenet, School of Environmental Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

9:00 – 10:30 pm, SUNDAY

Supply Chain

Room 2

Session Chair: Kosha Joshi, Department of Management Studies, Indian Institute of Science, Bengaluru, India

ID 421 Charging Station Network Design for E-Motorcycle: A Case Study

Era Febriana Aqidawati, Master Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Rheza Aulia Ramadhan, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 338 Design Model for Transportation Mode Selection of Imported Goods according Cargo Type at Construction Company

Ririn Dewi Cahyani, M. Dachyar, and Farizal, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 339 Design Process of Supply Chain Management at Aircraft Maintenance Company for Spare Part Turnover Improvement

Ananda Kusuma Wardhana, M. Dachyar, and Farizal, Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 207 Effective Supplier Selection Using ANP

H.I.Udakanjalee, D.H.H. Niwunhella, and A.N. Wijayanayake, Department of Industrial Management, University of Kelaniya, Dalugama, Sri Lanka

ID 945 Warehouse Optimization using Generalized Reduced Gradient (GRG) Method

Sadna Dissanayake, Hayleys Advantis Limited, Colombo, Sri Lanka
Thashika Rupasinghe, Silueta (Pvt.) Ltd., Malwana, Sri Lanka

ID 085 Development of Solution Methodologies for Online Order Fulfillment in Omnichannel Retailing
Kosha Joshi and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bengaluru, India

9:00 – 10:30 pm, SUNDAY**Product Design and Development****Room 3**

Session Chair: Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 374 Application of Computer Vision in Pipeline Inspection Robot

Oyekola Peter Oluwatosin, Department of Mechanical Engineering, Papua New Guinea University of Technology, Somade Kolawole, MTN Nigeria
Shoeb Ahmed Syed and Owen Apis, Department of Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea

ID 361 Augmented Reality Enabling Disassembly Sequence Planning

Daniela Francia, Leonardo Frizziero, Alfredo Liverani, Giampiero Donnici, and Nicoletta Dalledonne, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, v.le Risorgimento, 2 - 40136, Italy

ID 162 Design Climatic Treatments and Environmental Needs in Hot Areas

Salma Dwidar, Amal Abdelsattar, Amani Derbali and Hala Sirror, Architecture Department, Prince Sultan University, Riyadh, KSA
Donia Abdelgawad, Architecture Department, College of Fine Arts, Alexandria University, Egypt

ID 253 Design for Six Sigma (DFSS) and Industrial Design Structure (IDeS) for a New Urban Sustainable Mobility

Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Davide Bolzani, Lorenzo Golinelli, and Federica Marchi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 267 Disassembly Sequence for Hydraulic Pump using Disassembly Geometry Contacting Graph in Augmented Reality Environment

Gian Maria Santi, Alfredo Liverani, Giampiero Donnici, Edoardo Croati, and Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 763 Using Anova for Optimizing Thermal Profile Process in Assembly Line of Printed Circuit Boards (PCB)

Kamal Alzameli, Design Multimedia System Engineer, Doctor of Engineering in Manufacturing Systems, Research and Vehicle Technology, Ford Motor Company, Michigan, USA

Daw Alwerfalli, Professor, Director, Master of Engineering Management, A. Leon Linton Department of Mechanical Engineering, College of Engineering, Lawrence Technological University, USA

Ahmed Alsamrai, Senior Electrical Engineer, Product Development Center, Ford Motor Company, MI, USA

ID 103 A Framework to Develop and Evaluate Circular Economy Readiness within the Rail Sector

Carl Waring, College of Science and Engineering, University of Derby, Derby, DE22 3AW, UK
Kapila Liyanage, College of Science and Engineering, University of Derby, Derby, DE22 3AW, UK

9:00 – 10:30 pm, SUNDAY**Green and Waste****Room 4**

Session Chair: Bupe G Mwanza and Erastus M Mwananumo, University of Zambia, Zambia

ID 929 Plastic Recycling from Municipal Solid Waste in Jashore City of Bangladesh

Md. Firoz Kabir, and Md. Ariful Alam, Department of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur, Bangladesh

ID 977 Governance Mechanisms for Managing Municipal Solid Waste: A Review

Kachikoti W Banda, Bupe G Mwanza and Erastus M Mwananumo, University of Zambia, Zambia

ID 847 Green Technology for Extracting Coffee Oil and Biodiesel Production: An Application of Spent Coffee Ground Management Approach

Erdawati and Elsa Vera Nanda, Department of Chemistry Education, Faculty of Mathematics and Sciences, Universitas Negeri Jakarta, Jakarta Timur, Daerah Khusus Ibukota Jakarta 13220, Indonesia

Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Shamsul Bahri Abd Razak, Faculty of Fisheries and Food Science, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 966 A Non-Disruptive Ecological Innovation on Concrete Block Manufacturing: A Product Viability Study for the Philippine Construction Industry

Ephraim Ryan Joya, Arnel Buan Jr., and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 871 A Review of Green Marketing Strategy Literature: Mini-Review Approach

Ryan Firdiansyah, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 952 A Review of Green Accounting, Corporate Social Responsibility Disclosure, Financial Performance and Firm Value Literature

Maria Lusiana, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yusoff Yusliza, and Zikri Muhammad, Universiti Malaysia Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Johor, Malaysia

ID 885 Selection of a Sustainable Municipal Wastewater Treatment Technology: A Multi-Criteria Decision Analysis Approach Using AHP and TOPSIS with Fuzzy Sets

Nico Bautista Carlos and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila

9:00 – 10:30 pm, SUNDAY

Operations Management

Room 5

Session Chair: M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 1015 A Review of Pilot Performance Literature: Mini-Review Approach

Ludwig Bayu, Mohd Yusoff Yusliza, Jumadil Saputra, and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1024 Analysis of Completeness Products and Prices on Decision of Buying ATK (Office Stationery) at UD. Pemancar Ilmu Store in Namlea City

Firman Gazali Djunaidi, Universitas Iqra Buru, Indonesia

ID 1037 Measuring Islamic Spiritual Intelligence for Managerial Positions Level in the Mining Industry: Mini-Review Approach

Agus Santoso, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1050 Public Service Motivation on the State Civil Apparatus: "Local Government Policies Strategy in Administration Reform"

Andries Lionardo, University of Sriwijaya, Palembang, Indonesia

Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia

Kiki Cahaya Setiawan, UIN Raden Fatah, Palembang, Indonesia

Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia

M Chairul Basrun Umanailo, Universitas Iqra Buru, Indonesia

ID 1026 The Effect of Balanced Life and Career Development on Job Satisfaction in Bank Maluku

A. Yudianti Tenriawali, Universitas Iqra Buru, Indonesia

ID 1060 Village Financial Accountability Report Assessment Presentation based on Government Accounting Principles

Misnawati, Gustika Sandra, Sekolah Tinggi Ilmu Hukum Pengayoman, Kabupaten Bone, Sulawesi Selatan 92713, Indonesia

A. Cahaya, M Awaluddin A, Andi Onasis, Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

Zarina Akbar, Universitas Negeri Jakarta, Indonesia

ID 537 Lean Transformation in Electricity Transmission Tower Manufacturing Company-A Case Study

M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

March 8, 2021 (Monday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY

Graduate Student Paper Competition

Room 1

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 139 Outsourcing Life Cycle Model for Financial Services in the FinTech Era

Tristan Lim, School of Business Management, Nanyang Polytechnic, Singapore

Patrick Thng, School of Information Systems, Singapore Management University, Singapore

ID 265 Application of Multiple Criteria Decision-making Methods in the Human Resource Recruitment Process

Maela Madel L. Cahigas, Master of Science in Industrial Engineering, Mapúa University, Manila, Philippines

Rex Aurelius Robielos, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 382 Value Drivers in Product-Service Systems: An Empirical Study of Two Sharing Business Models

Suzana Regina Moro, Post-graduate Program in Production Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil

Paulo Augusto Cauchick-Miguel, Department of Production and System Engineering, Post-graduate Program in Production Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil

ID 1130 Impact of Cultural Behavior on the Bullwhip Effect in the COVID-19 Pandemic

Thais de Castro Moraes, Department of Industrial Systems Engineering and Management, National University of Singapore, Singapore

Xue-Ming Yuan, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research - A*STAR, Singapore

ID 1172 A Content Analysis of Closed-Loop Supply Chain Optimization for End-of-Life Vehicle Recycling

Fatin Amrina A.Rashid, Hawa Hishamuddin, Mohd Radzi Abu Mansor, and Nizaroyani Saibani, Department of Mechanical & Manufacturing Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Selangor, Malaysia

8:00 – 9:45 am, MONDAY**Maintenance and Reliability****Room 2**

Session Chair: Akhmad Zaroq Cahyo Bawono, Department of Industrial Engineering, Universitas Indonesia

ID 100 A new approach for remaining useful life estimation using deep learning

Drici Djalel, Biskra University, ALGERIA and Research Center in Industrial Technologies CRTI, Algeria
Kourd Yahia, LEER, Souk-Ahras University, Algeria

ID 221 Effective Maintenance Management in Indonesian Hotel Industry

Ahmad Akmludin Sahid, Ananda Kusuma Wardhana, Ririn Dewi Cahyani, and Yonatan Simon Suganda, Industrial Engineering Departement, Universitas Indonesia, Depok 16436, Indonesia

ID 377 Examining Relationship between Maintenance Management and Sustainability in Buildings: Literature Review

Youhansen Mohamed A. Salaheldine, Masters' Student, Architecture Department, Faculty of Engineering, Ain Shams University, Cairo, Egypt
Ahmed Atef Faggal, Professor in Architecture Department, Faculty of Engineering, Ain Shams University, Cairo, Egypt
Laila Mohamed Khodeir, Professor in Architecture Department, Faculty of Engineering, Ain Shams University, Cairo, Egypt

ID 362 Factors to Determine Quay Crane Lifecycle: Retrofit and Replacement Policy

Sundaraja Perumal Gothandapani, and Mohd Nizam Ab Rahman, Universiti Kebangsaan Malaysia, Port Klang, Selangor, Malaysia

ID 219 Implementation of Maintenance Management in Educational Institutions in Indonesia

Hafizha Marianto Putri; Kiki Rizki Yunita; Lalita Padmapuspita; and Nathania Astria, Department of Industrial Engineering, Universitas Indonesia, Depok 16436, Indonesia

ID 117 Key Factor of Implementation Maintenance Management Policy Deployment & Organization of Testing Laboratories in Indonesia

Jerry Kuswara Piton, Rofiqoh Nur Rohmah, Rosa Vella Erdizon, and Safira Khanza, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 232 Maintenance Management in Spare Part Industry for Manufacturing Company in Indonesia – Survey

Akhmad Zaroq Cahyo Bawono, Frezi Majesty, Shadiq Thahir, and Shinta Herlina, Department of Industrial Engineering, Universitas Indonesia

8:00 – 9:45 am, MONDAY**Business Management****Room 3**

Session Chair: Jumadil Saputra, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 272 A Confirmatory Analysis on the Enterprise Risk Management Factors on the Malaysian Mtun Universities' Performance

Saleh Nasser Abdullah Al-Subari, Rumaizah Ruslan, and Shafie Bin Mohamed Zabri, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 615 A Mini Review of Islamic Stock Market Literature

Anwar Puteh, Jumadil Saputra and Zairihan Abdul Halim, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 574 A Qualitative Study of E-Commerce Growth during Corona Virus Disease (COVID-19) Pandemic in Indonesia

Syamruddin and Ivan Putranto, Department of Management, Faculty of Economics, Universitas Pamulang, Kota Tangerang Selatan, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Zackharia Rialmi, Department of Management, Faculty of Business and Economics, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 573 A Review of Sustainable Green Finance Literature: Mini-Review Approach

Fathihani, Jumadil Saputra, Mohd Hassan Che Haat, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 333 A Study of Green Management Literature through Bibliometric Positioning during Four Decades

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Anita Kartika Sari, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia
Abdul Aziz, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia
Yanu Endar Prasetyo, The Department of Rural Sociology, University of Missouri, Missouri, United States
Elsa Rosyidah, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

ID 557 An Investigation of Employees Engagement and Malaysian Female Employees' Performance

Siti Nor Adawiyah Azzahra Kamaruddin, Jumadil Saputra and Marhana Mohamed Anuar, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Khatijah Omar, Norhayati Ab Manaf and Md Khairul Azwan Md Razali, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 554 Analysing the Relationship between Supportive Work Environment and Employee Retention

Mohd Yusoff Yusliza, Juhari Noor Faezah, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
T. Ramayah, School of Management, Universiti Sains Malaysia, 11800 USM, Penang, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

Nora'aini Ali and Noor Maizura Mohamad Noor, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

8:00 – 9:45 am, MONDAY**Supply Chain****Room 4**

Session Chair: Arrayaporn Teekaputti, Chiang Mai University, Chiang Mai, 50200, Thailand

ID 624 Location Design of Electric Vehicles Charging Facility: Distance-Based Method Approach

Ananda Vania Arisa Putri, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, and Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 710 Hurricane Evacuation Decision Model in a Stochastic Dynamic Network

Ketut Gita Ayu, Industrial Engineering Department, BINUS University, Jakarta, Indonesia
Pitu Mirchandani, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ 85281, USA

ID 730 A Three-Level Supply Chain of Self-Healing Packages Considering Direct and Indirect Carbon Emission of Industrial and Transportation Cost

Ardivin Kester S. Onga, Axel Isidry R. Conventob, and Gabriel Josh D. Fradasb, Vince Louis M. Sumerab, John Maverick C. Villacarlosb, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 869 A Decision Process for the Applications of Artificial Intelligence in Sustainable Operations and Supply Chain Management

Reza Akbar Muhammad, Benny Tjahjono, Babul Salam KSM Kader Ibrahim, and Sri Rachmi Karimah Dewi Ridlo, Coventry University, Coventry, UK
Tri Yogi Yuwono, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 992 A Review on Integrated Supply Chain Performance Measurement System Concerning Industry 4.0: A developing world perspective

Sadaf Zahoor, Department of Mechanical, Automotive, and Materials Engineering, University of Windsor, Windsor, N9B 3P4, Canada
Khizer Hayat and Muhammad Zain Zahoor, Department of Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan

ID 856 Sustainable Supply Chain Network Design of Electric Vehicle Battery Recycling - A Case Study

Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 865 LPG Delivery Sequencing for Real-Time Continuous Incoming Purchasing Orders

Arrayaporn Teekaputti, Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Nivit Charoenchai, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

8:00 – 9:45 am, MONDAY**Operations****Room 5**

Session Chair: Elly Wattti Noorhan, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 956 Quality of Work Life Analysis with Job Stress and Occupational Safety and Health as Affecting Variable

Rizki Permatasari, Mahendra Fakhri, Ida Nurnida, Bachruddin Saleh Laturlean, Romat Saragih, School of Communication and Business Telkom University, Indonesia

ID 953 Analysis of Collaboration Strategies at University Using the SWOT and QSPM Methods

Nyayu Fitri, Students on a Management Study Program, Faculty of Economics and Business, Bina Dharma University, Palembang, INDONESIA
Muji Gunarto, Faculty of Economics and Business, Bina Dharma University, Palembang, Indonesia

ID 954 A Review of Employees' Well-being, Psychological Factors and Its Effect on Job Performance Literature

Mohd Sophian and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 943 Understanding the Digital Payment Services through User Experience during the Pandemic Era

Dian Kurnianingrum Mulyani, Entrepreneurship Department, Bina Nusantara University, Bandung Campus, Bandung, Indonesia
Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, Indonesia

ID 947 Analyzing the Company's Performance through Financial Statements: An Application of the Du Pont Method

Mahdawi, and Triyono, Department of Economic, Universitas Trisakti, Grogol, 11440, Jakarta Barat, Indonesia
Sarman Sinaga, Faculty of Business and Economics, Universitas Darma Agung, Petisa Hulu, Medan Baru, 20153 Sumatera Utara, Indonesia
Daniel Collyn, and Rika Surianto Zalukhu, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Syawal Harianto, Politeknik Negeri Lhokseumawe, Buketrata, Blang Mangat, 24301 Kota Lhokseumawe, Aceh 24301, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 951 The Influence of Uniqueness of Resources on Competitive Advantage in Private Higher Education

Lisnawati, Students on a Management Study Program, Faculty of Economics and Business, Universitas Bina Dharma, Palembang, Indonesia
Muji Gunarto, Faculty of Economics and Business, Universitas Bina Dharma, Palembang, Indonesia

ID 955 A Review Literature of Consumer Behaviour Marketing Mix and Demography Analysis: A Mini-Review Approach

Elly Watti Noorhan and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

March 8, 2021 (Monday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, MONDAY**Master Thesis Competition****Room 1**

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 375 Ferromagnetic climbing robot for industrial flaw detection: An implementation of computer vision

Peter Oyekola, Department of Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea

ID 1117 Hazard Risk Potential Analysis Using the Fuzzy Bow-Tie Method in LPG Tube Filling Factory

M. Fadli Perdana, Bambang Syairudin and Retno Widyaningrum, Departemen Teknologi Industri, Institut Teknologi Sepuluh Nopember, Indonesia

ID 1150 Sustainable Supply Chain Management Practices In Malaysian Non-Manufacturing Sectors

Hak Kenn Wong and Mehran Doulatbadi, MBA Center, Xiamen University Malaysia, 43900 Sepang, Selangor, Malaysia

ID 1204 Kawaii Analysis on Education-Based Online Games on User Behavior (Case Study: Jalasi 2 Application)

Purwati, Adithya Sudiarno and Erwin Widodo, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia

ID 835 Performance Analysis of RSS-Fingerprinting Localization for Multi-floor Environment Using Random Forest Algorithm

Khaing Myat Thu, Department of Information Technology, Yangon Technological University, Yangon, Myanmar
Nyein Aye Maung Maung, Department of Computer Engineering and Information Technology, Yangon Technological University, Yangon, Myanmar

ID 255 Analysis of the Conditions for Quality in Cold Transport Services

Alejandro Lerma Carrillo and Jenny Díaz Ramírez, Engineering Department, University of Monterrey, San Pedro Garza García, N.L., México
Teresa Gajewska, Cracow University of Technology, Division of Logistics System, Krakow, Poland

10:00 – 11:45 am, MONDAY**IoT****Room 2**

Session Chair: Elham Taghizadeh, Wayne State University, Detroit, MI 48035, USA

ID 308 Design of Internet of Things Technology Selection for Psychotherapy Services in Psychiatric Hospital

Siti Aisyah, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 306 Priority Design of the Telehealth-based Internet of Things Implementation for Hospital Pulmonology Unit

Alya Nabila Sukma, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 313 Refrigerated Container Handling Process Design Improvement in Container Terminal through the Implementation of Internet of Things (IoT) Using Business Process Reengineering Approach

Nadiyah Nisa Azzahra, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 170 Trust Based Internet of Things (IoT) System

Laxmi Pandit, MBA (IT and Operations), ICFAI Business School, Hyderabad, ICFAI Foundation for Higher Education University, India

ID 379 The Impact of Digital Technology and Industry 4.0 on Enhancing Supply Chain Resilience

Elham Taghizadeh, Department of Industrial and System Engineering, Wayne State University, Detroit, MI 48035, USA
Elaheh Taghizadeh, Quality Assurance and Process Analyst, Saman Electronic Payment (SEP), Tehran, Iran

10:00 – 11:45 am, MONDAY**Case Studies****Room 3**

Session Chair: Sobhi Mejjiaoui, Industrial Engineering Department Alfaisal University, Riyadh, KSA

ID 562 A Study of English Literacy Implementation Challenges among Primary School Teachers in Kelantan, Malaysia

Norfazila binti Ghazali and Mustafa Che Omar, Faculty of Islamic Contemporary Studies, Universiti Sultan Zainal Abidin, Gong Badak, 21300, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 511 Accountability And Integrity System: An Empirical Assessment of Indonesian Local Government

Mudrifah, Department of Accounting, University of Muhammadiyah Malang, Jawa Timur, Indonesia

ID 109 Airport check-in counters assignment using predicted passenger load: A Case Study

MA Nang Laik, Associate Professor, School of Business, Singapore University of Social Sciences, 461 Clementi Road, Singapore 599491
 Murphy Choy, Heriot-Watt University, Edinburgh Business School, Edinburgh, Scotland, United Kingdom

ID 075 A ASDP Ship Conversion Into Suramadu River Cruise

Agum Setyo Bintoro, Refiantika Rachma Utami, and Suci Amalia Putri, Departement of Marine Transportation Engineering, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia
 Wimolo Katamsi, Department of Naval Architecture, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia

ID 365 Foreign direct Investment and Unemployment in Chad: ARDL Approach

Ganama Moustapha Guerne, Maimunah Binti Ali, and Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
 Hissein Araby Nour, Faculty of Economics Science and Management, (Faculté des Sciences Économiques et Gestions, FSEG), University of N'Djamena, Chad

ID 705 Perception of Teachers in Decision Making Choosing Learning Applications: Systematic Review of Teacher Competencies in Indonesia in Designing Social Media-Based Learning during Pandemics

Ghanis Putra Widhanarto, Department of Education Technology, Universitas Negeri Semarang, Indonesia

ID 238 Packaging Process Optimization Using Six Sigma

Sobhi Mejjiaoui, Industrial Engineering Department Alfaisal University, Riyadh, KSA
 Sarah Algublan, Industrial Engineering Department Alfaisal University, Riyadh, KSA

10:00 – 11:45 am, MONDAY**Engineering Management****Room 4**

Session Chair: Aldo A. McLean, Engineering Management & Technology, University of Tennessee at Chattanooga, Chattanooga, TN, USA

ID 683 The Exploratory Factor Analysis on Firms Performance of Micro and Small Enterprises

Dedi Iskanto, Arhipen Yapentra, Elida Gultom, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia
 Misdawita, Faculty of Economics and Business, Universitas Riau, Pekanbaru, Indonesia
 Wetri Febrina, Sekolah Tinggi Teknologi Dumai, Riau, Indonesia
 Budi Santosa, Faculty of Economics and Business, Universitas Trisakti, Indonesia
 Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 703 Ageing Society Facilities during Travelling: A Preliminary Study

Yahaya bin Ibrahim, Yusnita Yusof, and Ahmad Puad Masom, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Terengganu, Malaysia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

ID 713 A Review of Corporate Financial Performance Literature: A Mini-Review Approach

Astrin Kusumawardani, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 278 A Study of the Introduction and Application of Total Quality Management within the Public Service Sector in Sharjah

Khalifa Musabeh Alketbi, PhD Research Proposal, College of Graduate Studies, Engineering Management, University of Sharjah, UAE
 Abbas Elmualim, Chair of the Department of Architectural Engineering, University of Sharjah, UAE

ID 516 The Effectiveness of using Modern Construction Methods as a Solution to Assist the Social Housing Shortage in the United Kingdom

Araz Agha, Abdussalam Shibani, Umar Bari, Dyaa Hassan and Nawal Gherbal, Coventry University, Coventry, United Kingdom

ID 077 Optimization of the Aggregate Production Plan in the Floriculture Industry: Case Study

Edison A. Gómez-Chávez, Yakcleem Montero-Santos, Ramiro V. Saraguro-Piarpuezan and Karla Paola Negrete, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador

ID 455 Assessing the Gap between Offshoring Expectations and Performance within an Engineering Department

Kent Derbyshire and Aldo A. McLean, Engineering Management & Technology, University of Tennessee at Chattanooga, Chattanooga, TN, USA

10:00 – 11:45 am, MONDAY**Business Management****Room 5**

Session Chair: Afifah Abd Razak and Shankar Chelliah, School of Management, Universiti Sains Malaysia, 11800 Gelugor, Pulau Pinang, Malaysia

ID 872 Contributing Factors that Affect Employee Performance: A Mini-Review Approach

Leonardus Wijaya, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 873 A Review of Work Effectiveness and Efficiency, Service Quality and Organisational Performance Literature: A Mini-Review Approach

Abdurahman Alkaf, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 931 The Role Of Financial Ability As A Mediator Of Financial Education And Financial Satisfaction Case Study At Productive In Makassar City

Nabila Junviani, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Budi Rustandi Kartawinata, Business Administration, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Nadya Karina Moeliono, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Arlin Ferlina Mochamad Trenggana, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia

ID 941 Financial Knowledge and Financial Behavior to Financial Satisfaction to the Millennial Generation in the City of Bandung

Kirana Devi, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Budi Rustandi Kartawinata, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Candra Wijayangka, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
 Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Jawa Barat, Indonesia

ID 842 Factors that Affect Competence and Affective Commitment and Its implication on Job Performance: A Case Study of STIE Medan, Indonesia

Cia Cai Cen, Willy Cahyadi, Lukito Cahyadi, Limega Candrasa, Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
 Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 863 A Review of Public Facilities and Recreation Development for Sports Tourism Literature: Mini-Review Approach

Jassmin Johari, Zaliha Zainuddin, and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 821 Drivers of Entrepreneurial Intention among University Students: The Mediating Role of Subjective Norms

Jullimursyida, and Julian Chandra, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
 Mawardati, Faculty of Agriculture, Universitas Malikussaleh, Reuleut Timur, Muara Batu, Aceh Utara, Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 833 Identifying the Contributing Factors Influencing Customers' Buying Behaviour: Case Study of Majelis Bandaraya Petaling Jaya, Malaysia

Afifah Abd Razak and Shankar Chelliah, School of Management, Universiti Sains Malaysia, 11800 Gelugor, Pulau Pinang, Malaysia
 Mohd Yusoff Yusliza and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

March 8, 2021 (Monday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, MONDAY**Master Thesis Competition****Room 1**

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 797 A Slow DDoS Attack Detection Mechanism using Feature Weighing and Ranking

Yin Mon Swe, Department of Information Technology, Pyay Technological University, Myanmar
 Pye Pye Aung, Department of Information Technology, University of Technology-Yatanarpon Cybercity, Myanmar

ID 571 Library Services Quality Using LIBQUAL Model in Haramaya and Assosa University Libraries, Ethiopia

Belay Asmamaw Fenite, Information Science Department, College of Computing and Informatics, Assosa University, Addis Ababa, Ethiopia

ID 1075 A Pressure Vessel Model Developed via Submerged Arc Welding

N.V. Chauke, and D.V.V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 1078 Analytic Study for Subsea Oil Production Optimization Using Lean Concepts

Hamdy Ahmed Abdel Rahiem, Arab Academy for Science, Technology & Maritime Transport, Egypt

ID 1177 Dynamic System Simulation Model For the Fulfillment of Soybean Logistics to Maintain Soybean Price Stability

Isna Nugraha, Master Program of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Muhammad Hisjam and Wahyudi Sutopo, Research Group of Industrial Engineering and Techno-economics, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1191 Hormonal Contraception and Exclusive Breastfeeding Discontinuation

Amita Nur Yudhani, Badan Pusat Statistik Kabupaten Karanganyar, Central Java, Indonesia
 Omas Bulan Samosir, Lembaga Demografi, Faculty of Economics and Business, Universitas Indonesia, Depok, Indonesia

ID 1226 The Effect of Job Training on Employee Performance with Employee Status as a Moderating Variable

Agung Setyabudi, Forester & Masters Students of Management, Postgraduate Program's, Universitas Bina Darma, Palembang, Indonesia.
 Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

Anis Marjukah, Management Department of Economics Faculty, Widya Darma University, Klaten, Indonesia

12:00 – 1:45 pm, MONDAY**Case Studies****Room 2**

Session Chair: Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia

ID 776 Marketing Communication Strategy of the Tourism and Culture Office of Langkat Regency in Increasing Tangkahan Tourist

Nina Siti Salmaniah Siregar, Armansyah Matondang, Ilma Saakinah Tansil and Abdul Haris, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Beby Mashito Batubara and Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Evi Yunita Kurniaty, Governmental Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 772 Does Digital Marketing Platforms affect Business Performance? A Mini-Review Approach

Mohamad Arfiman Yosep, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 774 2013 Curriculum Implementation in Physical Learning

Tri Kurnia Badu, Syafa Lisaholiti, Vivi Rahim Hentihu, Siti H Loilatu, and Suraya Mukaddar, Universitas Iqra Buru, Namlea, Indonesia

M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 759 Conceptualizing the Role of Patient Satisfaction in the Relation between Services Quality and Patient Loyalty in Jordan Public Hospitals

Salahaldeen Alkawamleh, Puspa Liza Ghazali, Roslida Abdul Razak, Juliana Arifin and Eni Norein Mohmad Zain, Faculty of Business and Management, Universiti Sultan Zainal Abidin Unisza, 21300 Kuala Nerus, Malaysia

Sukono, Universitas Padjadjaran, Bandung, West Java, Indonesia

Rini Cahyandari, UIN Sunan Gunung Djati Bandung, West Java, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 861 Capital Investment Analysis of New Business Unit Education Technology at PT Berau Coal

Cahyo Andrianto, Executive MBA Student, School of Business and Management Institute of Technology Bandung, Bandung

Yunieta Anny Nainggolan, Lecturer of Business Risk and Finance Interest Group, School of Business and Management Institute of Technology Bandung, Bandung, Indonesia

ID 879 The Influence of Digital Folktales on the Students' English Vocabulary Mastery of SMP Negeri 9 Buru

Abd. Rahman, Universitas Iqra Buru, Maluku, Indonesia

ID 960 The Constructiveness of Online Learning in Mandarin Course During COVID-19 Pandemic Season

Nurul Ain Chua Binti Abdullah, Che Mohd Zaid, Roswati Abdul Rahid, Mazlina Ahmad and Azlina Musa, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

12:00 – 1:45 pm, MONDAY**Operations Management****Room 3**

Session Chair: Lina Gozali, and Frans Jusuf Daywin, Lecturer of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 079 The importance and satisfaction of location decision factors of South African manufacturing and service SMMEs: An Exploratory Factor Analysis

Alice Kabamba Lumbwe, Eveth Nwobodo-Anyadiegwu, and Charles Mbohwa, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 589 The Power of Hypothesis Parameters Testing on Geometric Distributions and Its Simulation

Budi Pratikno, and Evita Luaria Wulandari, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Purwokerto, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 049 Influence of Substrate Temperatures on Morphological TiO₂ Nano-layers Properties

Bedoud Khoulood, Merabet Hichem, Graine Redouane, Alimi Latifa, and Drici Djalel, Research Center in Industrial Technologies (CRTI), Cheraga, Algeria

ID 451 Modeling and configuration management of Reconfigurable Manufacturing Systems (RMS)

Jesus Vital Kombaya, Nadia Hamani and Lyes Kermad, Department of Industrial Engineering, University of Paris 8, Paris, France and University Picardie Jules Verne, Saint Quentin, France

ID 370 Developing a Multi Criteria Decision Making Framework to Select the Most Suitable Production System in Apparel Firms: Use of ANP Method

Wijayanayake A.W., Thalagahage N.T.H, and D.H.H. Niwunhella, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

ID 458 Production Planning and Control in Furniture Company at PT. Lion Metal Works

Lina Gozali, and Frans Jusuf Daywin, Lecturer of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia
 Andri Tan Wijaya, Student of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

12:00 – 1:45 pm, MONDAY**Case Studies****Room 4**

Session Chair: Inês Onofre, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

ID 851 Prejudice on Indonesia Social Media

A. Yudianti Tenriawali, M Chairul Basrun Umanailo, Universitas Iqra Buru, Maluku, Indonesia
 Kaharuddin Kaharuddin, Cultural Sciences Faculty, Hasanuddin University, Indonesia

ID 811 Factors Encouraging the Pangandaran Female Entrepreneurs' Sturdiness in Pandemic Time (A Case Study in Pangandaran Regency)

Ikeu Kania, Faculty of Social and Political Sciences of Garut University, Indonesia
 Siti Anisa Silvia, Indonesian Institute of Sciences, Indonesia
 Nani Rohaeni, Garut Regency Regional Secretariat, Indonesia
 Dodi Yudiardi, Faculty of Social and Political Sciences of Garut University, Indonesia
 Iwan Ridwan Stiaji, Indonesian Institute of Sciences, Indonesia

ID 846 The Challenges of Industrial Revolution 4.0: An Evidence from Public Administration Ecology in Indonesia

A. Rina Herawati, Hardi Warsono, and Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 864 A Qualitative Study of Transformational Leadership and Organization Success

Dewi Jannah and Latip, Institute of the Malay World and Civilisation, Universiti Kebangsaan Malaysia, UKM Bangi, 46300, Selangor, Malaysia
 A. Tarmizi, Department of Public Administration, Postgraduate Program, Universitas Islam Riau, Pekanbaru, Riau 28284, Indonesia
 Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 978 Productive Arrangement for Strengthening Local Microeconomics Through School Feeding

Antônio Carlos Estender, Nilza Aparecida dos Santos, Jorge Luiz Dias Agia, Sérgio Miele Ruggero, Aguinaldo Eduardo de Souza and Oduvaldo Vendrametto, Paulista University – UNIP, São Paulo, SP, Brazil

ID 971 Land Development Processes and Property Rights: Top-Down and Bottom-Up Approaches in Windhoek Namibia

Romancia Shoonga, Department of Urban & Regional Planning, University of Johannesburg, 25 Louisa Street, Johannesburg, South Africa
 Trynos Gumbo, Department of Urban & Regional Planning, University of Johannesburg, 25 Louisa Street, Johannesburg, South Africa
 Eric Makoni, Department of Urban & Regional Planning, University of Johannesburg, 25 Louisa Street, Johannesburg, South Africa

ID 828 Implementation of a Knowledge Management Strategy: Reflections and Critical Success Factors

Inês Onofre, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810-193, Aveiro, Portugal

12:00 – 1:45 pm, MONDAY**Education****Room 5**

Session Chair: Aji Purwinarko, Science and Math, Universitas Negeri Semarang, Indonesia

ID 627 Student Parent Training to Reduce the Impact of Problematic Internet Use in PAUD Pelangi Students, Ngijo Gunungpati Semarang

Abdul Azis, Sugeng Hariyadi, Amri Hana Muhammad, Dyah Ayu Rahmawati, Laila Listiana Ulya, Raahmawati Prihastuty, Anggita Fathidhia Ivana
 Department of Psychology, Universitas Negeri Semarang, Indonesia

ID 629 Kindergarten Teachers' Experience and Age Contribution to Teaching Performance

Yuli Kurniawati Sugiyo Pranoto, Dyah Retno Fitri Utami, and Lita Latiana, Early Childhood Education, Graduate School, Universitas Negeri Semarang, Sekaran, Gunungpati, Indonesia
 Farid Ahmadi, Primary Teacher Education Department, Faculty of Education, Universitas Negeri Semarang, Sekaran, Gunungpati, Indonesia

ID 631 Development And Validation of the Social-Cultural Competency Assessment Software for State Civil Apparatus

Tri Esti Budiningsih, Fatma Kusuma Mahanani, Pradipta Christy Pratiwi and Woro Apriliana Sari, Department of Psychology, Educational Faculty Universitas Negeri Semarang, Semarang, Indonesia

ID 632 Developing HOTS-Oriented Learning Model with Scientific Approach for the Heads of IGTKI throughout Central Java

Sri Sularti Dewanti Handayani, and Akaat Hasjiandito, Department of Early Childhood Teacher Education, Universitas Negeri Semarang, Indonesia

ID 633 Relationship between Parenting Style and Social Attitudes of Elementary Students

Sri Sami Asih, Jurusan Pendidikan Guru Sekolah Dasar, Universitas Negeri Semarang, Semarang Indonesia
 Sri Sulistyorini, Jurusan Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Semarang Indonesia
 Susi Dwi Astuti, Jurusan Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Semarang, Indonesia

ID 634 Promotion of Mental Health through Digital Media to Reduce Psychosomatic Impact in Pandemic Time

Sony Zulfikasari, Woro Apriliana Sari, and Sugeng Purwanto, Universitas Negeri Semarang, Indonesia

ID 635 What Kind of Teacher Am I? (An Exploratory of Teacher Characteristic as Activator)

Sugiyarta SL, Psychology, Universitas Negeri Semarang, Indonesia
 Ardhi Prabowo, Science and Math, Universitas Negeri Semarang, Indonesia
 Tsabit A. Ahmad, Social Studies, Universitas Negeri Semarang, Indonesia
 Aji Purwinarko, Science and Math, Universitas Negeri Semarang, Indonesia
 M. Badrus Siroj, Linguistic, Universitas Negeri Semarang, Indonesia

March 8, 2021 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY**Graduate Student Paper Competition****Room 1**

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 547 Stakeholder Management Models for Solid Waste Management Projects

Maheshi Tennakoon, Department of Building Economics, University of Moratuwa, Katubadda, Moratuwa, Sri Lanka

ID 838 Utilization of Machine Learning Techniques for Quality Monitoring and Prediction

Mohamed Ismail, Department of Mechanical Engineering, Benha University, Benha 13518, Qalubia, Egypt
 Noha A. Mostafa, Mechanical Engineering Department, The British University in Egypt 11837, Cairo, Egypt and Industrial Engineering Department, Zagazig University 44519, Sharkia, Egypt
 Ahmed El-assal, Department of Mechanical Engineering, Benha University, Benha 13518, Qalubia, Egypt

ID 1203 Impact of TQM Implementation on organization performance with in public service sectors in Sharjah

Khalifa Musabeh Alketbi, College of Graduate Studies, Engineering Management, University of Sharjah, UAE
 Abbas Elmualim, Chair of the Department of Architectural Engineering, University of Sharjah, UAE
 Emad Mushtaha, Co-Supervisor, Department of Architectural Engineering, University of Sharjah, UAE

ID 570 Flexible Travel of Shuttles under Smart Collision and Deadlock Control Policies versus Dedicated Zone Travel of Shuttles for an SBS/RS

Ecem Eroglu Turhanlar and Banu Yetkin Ekren, Department of Industrial Engineering, Yasar University, Izmir, Turkey
 Tone Lerher, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

ID 1136 Application of TPU – Sourced 3D Printed FDM Organs for Improving the Realism in Surgical Planning and Training

Patrich Ferretti, Christian Leon-Cardenas, Merve Sali, Gian Maria Santi, Leonardo Frizziero, Giampiero Donnici, and Alfredo Liverani, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 1009 Investigating Soot Blowing Mechanism of Boilers

Kholofelo Errol Malatji and D.V.V. Kallan, University of Johannesburg, South Africa

2:00 – 3:45 pm, MONDAY**Supply Chain & Logistics Panel****Room 2**

Panel Chair

Dr. Mark Goh

Director of Industry Research
 The Logistics Institute - Singapore
 Professor, Department of Decision Sciences, School of Business
 National University of Singapore (NUS)
 Singapore

Panel Speakers

Panel Speaker I

Panel Speaker II

Panel Speaker III

Panel Speaker IV

2:00 – 3:45 pm, MONDAY**Sustainable Manufacturing****Room 3**

Session Chair: Christopher COX, Kimmel School of Construction Management, Western Carolina University, Cullowhee, NC, USA

ID 261 Comparing Concrete construction using Modular and Individual Panel System (IPS) methods

Ali Tighnavard Balasbaneh, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia
Mohd Irwan Juki and David Yeoh, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

ID 299 Development of Performance Measurement Framework for Biomass Smokeless Charcoal Production

Pornthip Jaiinphon, Graduate Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Salinee Santiteerakul, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

ID 192 Do All the Green Manufacturing Adoption Drivers have the same Influence? (Survey Study of Indonesian Batik Textile SMEs)

Ira Setyaningsih, Wakhid Slamet Ciptono, Nurul Indarti, and Nofie Iman Vidya Kemal, Magister Doctoral Faculty of Business, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 327 Fabrication of Soy-Based Polyurethane and Identification Failures from Processing Pathway

Flora Elvistia Firdaus, Donna Imelda, Lubena, and Rinnette Visca, Department of Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23 Jakarta-13210, Indonesia

ID 328 The Manufacturing of Low Loading Phosphoric Based Polyurethane Application from Edibles Epoxide Conversion

Flora Elvistia Firdaus*, Donna Imelda, Lubena, and Rinnette Visca, Department of Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23 Jakarta-13210, Indonesia

ID 1065 Student Learning Interest in Covid-19 Pandemic Age by Blended E-Learning (Asynchronous and Synchronous)

Harlindah Harniati Arfan, STIE NOBEL Makassar, Indonesia
Geminastiti Sakkir, Universitas Negeri Makassar, Indonesia
Nungky Puspita, Universitas Pancasila, Indonesia
Zarina Akbar, Universitas Negeri Jakarta, Indonesia
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia
Asriadi, Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 1043 Project Risk in the Age of AI: A Meta-network Assessment of Behavior Centric Intangible Risks

Christopher COX, Kimmel School of Construction Management (August 2021), Western Carolina University, Cullowhee, NC 28723, USA
Hamid PARSAEI, Wm Michael Barnes'64 Department of Industrial and Systems Engineering, Texas A&M University, College Station, TX, USA

2:00 – 3:45 pm, MONDAY

Operations Management

Room 4

Session Chair: Eneng Tita Tosida, Universitas Pakuan, Bogor, Indonesia

ID 684 Estimated Spline in Nonparametric Regression with a Generalized Cross Validation and Unbiased Risk Approach

Agustini Tripena and Agung Prabowo, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia
Yosita Lianawati, Sekolah Tinggi Ilmu Komputer Yos Sudarso, Purwokerto, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 685 The Variant of Magic Square in Javanese Tradition

Agung Prabowo, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia
Hasriati, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Riau, Indonesia
Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Mustafa Mamat, Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin, Gong Badak Campus, 21300, Kuala Terengganu, Terengganu, Darul Iman, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 732 Poverty Level Analysis in Indonesia Using the Stochastic Restricted Maximum Likelihood Approach Method

Rieman, Sudradjat Supian, and Sukono, Department of Mathematics, FMIPA, Padjadjaran University, Jatinangor 40363, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 735 Increasing Labor Insurance Participation with the Agency System

Fredi Andria, Salmah, and Mirna Rahayu, Department of Management, Faculty of Economics Pakuan University, Bogor Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 755 Financial Distress Analysis Using Altman (Z-Score), Springate (S-Score), Zmijewski (X-Score), and Grover (G-Score) Models in the Tourism, Hospitality and Restaurant Subsectors Listed on the Indonesia Stock Exchange Period 2015-2019

Retno Martanti Endah Lestari, Monang Situmorang, and M. Ilham Putra Pratama, Department of Accounting, Faculty of Economics, Pakuan University, Bogor, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 758 Analysis to Assessment Potential Bankruptcy of the Company in State Owned Enterprises Agriculture Sector

Agung Fajar Ilmiyono, Ellyn Octavianty, and Muhamad Adriansyah, Dept. of Accounting, Faculty of Economics, Pakuan University, Bogor, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 754 Promotion of the Motif Kujang Design by A* Algorithm Application in the Labyrinth Education Game

Eneng Tita Tosida, Restu Wibowo, and Sufiatul Maryana, Department of Computer Science, Universitas Pakuan, Bogor, Indonesia,
Jl. Pakuan PO Box 452 Bogor 16143, Jawa Barat, Indonesia

2:00 – 3:45 pm, MONDAY**Education****Room 5**

Session Chair: Mungin Eddy Wibowo, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 636 Analysis of the relationship of career adaptability and career competence towards student career engagement

Sinta Saraswati, Edwindha Prafitra Nugraheni, Vira Mulyawati, and Ari Eko Wibowo, Department of Guidance and Counseling, Faculty of Education, Universitas Negeri Semarang, Indonesia

Edwindhana Mareza Putra, Department of Guidance and Counseling, Faculty of Teacher Training and Education, Universitas Nahdlatul Ulama Sunan Giri Bojonegoro, Indonesia

ID 637 Parental Support in Nutrition Service Management towards Integrative Holistic Early Childhood Education

Reni Pawestuti Ambari Sumanto and Neneng Tasuah, Department of Early Childhood Education Teacher Education, Universitas Negeri Semarang, UNNES Campus 50229, Semarang, Indonesia

ID 639 Game Learning based Android for Trauma Healing in Post Disaster Children in Disaster Area in Banyumas Regency

Rafika Bayu Kusumandari and Sony Zulfikasari, Educational Technology Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 640 The Art Communication System of Children Songs by Djito Kasilo in Digital Era through Web 2.0 to Instill Character Values in Early Childhood Students

Putri Yanuarita Sutikno, and Novi Setyasto, Primary School Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 641 The implementation of pjbl assisted with the virtual debate to assess students' competency of writing articles

Panca Dewi Purwati, Primary Teacher Education, Education Faculty, Universitas Negeri Semarang, Indonesia

ID 642 Local Wisdom-Based Text Grading Media: Improving Early Reading Skills of Primary Students

Nugraheni Sismulyasih Sb, Panca Dewi Purwati, and Umar Samadhy, Primary Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 643 The Development of Guide Book for Implementing Online Learning through Google Classroom Assisted by Zoom as a WFH Solution for Elementary School Teachers

Novi Setyasto, Sutaryono, Galih Mahardika C. P., Sigit Yulianto, and Purnomo, Primary School Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 644 Analysis of Ethnic Identity, Academic Identity, and Subjective Well-Being among Javanese College Students

Mungin Eddy Wibowo, Zakki Nurul Amin and Sunawan Sunawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

March 8, 2021 (Monday) - Session: 4:00 – 4:45 pm

4:00 – 5:45 pm, MONDAY**COVID-19 Analytics Competition****Room 1**

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 448 An Agent-based Model of COVID-19 Epidemic to Simulate Spread Effects of Human Behavior Intervention

Retno Widyaningrum, Arief Rahman, and Najmi Fauzia, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 145 COVID-19 Isolation Tents: Risk Assessment of Standard Safety Protocols in Assembling Tents Outside of Hospitals in the Philippines

Rhea Ann G. Perez, Elvis Dave M. Santos and Maria Louise C. Valenzuela, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal Street, Quiapo, Manila, Philippines

Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines

ID 599 Effect of Mask and Workload on Physiological Responses

Atef Ghaleb, King Saud University, Riyadh, Saudi Arabia

ID 167 Mathematical Modeling of Reservoir-Mediator-Human Dynamical Transmission of COVID-19 Outbreak

Joy Bakshi, S M Shaheduzzaman Ayon, and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 091 Online Learning Transformation Technology in Higher Education: Challenges & Strategy

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Aleksander Purba, Civil Engineering Department, Faculty of Engineering, Universitas Lampung-Bandar Lampung 35145, Indonesia

ID 086 Strategy of Technology Services for Customers in Pandemic Covid19 Situation: A case from Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia

ID 909 Impact of COVID-19 on the U.S. Energy Production

Rawan K. Asfour and Hazem A. Attam, Master of Energy Engineering Student, College of Engineering, Effat University, Jeddah, Saudi Arabia
Tayeb Brahimi, College of Engineering, Effat University, Jeddah, Saudi Arabia

4:00 – 5:45 pm, MONDAY

AI and Cybersecurity

Room 2

Session Chair: AbdulAziz Bin Shuhaywin, Alfaisal University, Riyadh, Saudi Arabia

ID 878 Enhancing Cyber Security in the Philippine Academe: A Risk-Based IT Project Assessment Approach

Michael Francis M. Aquino and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 898 Online Social Networks as Supporting Evidence for Digital Forensic Investigation: A Revised Model

Norulzahrah M. Zainudin, Nor Asiakin Hasbullah, Muslihah Wook, Suzaimah Ramli and Noor Afiza Mat Razali, Department of Computer Science, National Defence University Malaysia, Kuala Lumpur, Malaysia

ID 890 Two-Factor Authentication in the E-Banking System: A Literature Review

Faiza Renaldi, Asep Id Hadiana, Angga Fantiya Hermawan, Shanina Aisyah Wardhani, Albi Mulyadi Sapari and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 972 The Application of Three Multinomial Logit Models for Modeling Injury Outcomes of Crashes Involving Driver, Passenger and Pedestrian victims

Ouni Fedy, Department of transportation and logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Sousse, Tunisia
Mariem ALLOUCH, PhD student, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia

ID 752 Establishing Drone Detection System by Using Deep Learning and YOLOv3 Formatting

AbdulAziz Bin Shuhaywin and Faisal AlMeshkhas, Engineering and Systems Management Students, College of Engineering, Alfaisal University, Riyadh, Al-Zahravi Street 11533, KSA
Sobhi Mejjauoli, Assistant Professor, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

4:00 – 5:45 pm, MONDAY

Transportation and Logistics

Room 3

Session Chair: Sharaf Alkheder, Kuwait University, Kuwait

ID 184 Vehicle Routing and Shipment Consolidation in a 3PL DC: A Systematic Literature Review on the Solution Approaches

A. Wijayanayake, H.D.W. Weerakkody and D.H.H. Niwunhella, Department of Industrial Management, University of Kelaniya, Kelaniya, Sri Lanka

ID 404 A Fuzzy Analytic Hierarchy Process Approach to Identify the Relative Importance of Factors Influencing Air Cargo Operation: A Case Study with Paro International Airport in Bhutan

Wangchuk Rabten, Narat Hasachoo, Pornwasin Sirisawat and Kwang Eui Yoo, Business Excellence and Logistics Research Centre: BE-Logist School of Management, Mae Fah Luang University, Chiangrai, Thailand

ID 052 High-Speed Rail Transit Development in Indonesia, Lesson Learned from Developing Countries

Aleksander Purba, Civil Engineering Department, Engineering Faculty, the University of Lampung, Bandar Lampung 35145 Indonesia
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

ID 204 Model Development for Reduction of Accidents in Traffic Congested Major Roads

Russel L. Palubon, Cezille Joyze R. Pineda, Quevedo, Venusmar C. and Noime Fernandez, Industrial Engineering Department, Adamson University, 900 San Marcelino St., Ermita, Manila, Philippines

ID 026 Optimizing bus frequency in Kuwait to minimize total cost and satisfy the average daily demand

Sharaf Alkheder, Fahad AlRukaibi and Areej Zaqqouq, Civil Engineering Department, College of Engineering & Petroleum, Kuwait University, Kuwait

ID 083 Sustainable Subgrade Stabilization for Transport Infrastructure Development in Australian Sodic Soils

Raghavendra Vasudeva Upadhyaya, PhD student, College of Engineering and Aviation, Central Queensland University, Melbourne, VIC, Australia
Jerome Egwurube, Lecturer, College of Engineering and Aviation, Central Queensland University, Rockhampton, QLD 4701, Australia
Prince Bhandari, Laboratory Supervisor, College of Engineering and Aviation, Central Queensland University, Melbourne, VIC 3000, Australia

ID 544 The Effect of Experience Value on Customer Loyalty Moderated by Experiential Context-Based Customer Education

Ahmad Hartawan, Students in the Doctoral Program of Economics, Universitas Sriwijaya, Palembang, Indonesia
Syamsurijal A. Kadir, Zakaria Wahab, and Muchsin Saggaff Shihab, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia

4:00 – 5:45 pm, MONDAY

Supply Chain

Room 4

Session Chair: Darjat Sudrajat, Bina Nusantara University, Jakarta, Indonesia

ID 456 Supplier Selection: A Lean-Agile (Leagile) Approach

Zahra Bastani, and Masoud Rahiminezhad Galankashi, Department of Industrial, Mechanical and Aerospace Engineering, Buein Zahra Technical University, Buein Zahra, Qazvin, Iran

Muhammad Hisjam, Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Surakarta, Indonesia

ID 108 Supply Chain Management in B2C E-Commerce: Delineating Managers' Challenges

Erlinda Nusron Yunus, Sekolah Tinggi Manajemen PPM, Jl. Menteng Raya No. 9-19, Jakarta 10340, DKI Jakarta, Indonesia

ID 056 Systematic Literature Reviews in Supply chain resilience: A Systematic Literature Review

Dario Simbizi, Loubna Benabbou and Bruno Urli, Département Sciences de la Gestion, Université du Québec à Rimouski (UQAR) Campus de Lévis, Québec, Canada

ID 186 The Missing Puzzle of Community Development Practices in Food SMEs' Value Chain: Quadruple Helix Theory

Dina Nurul Fitria, Department of Economics, Universitas Pertamina, Indonesia

ID 543 The Role of Stakeholder Commitment and Supply Chain Collaboration in Improving Dry Port Firm Performance in Indonesia

Darjat Sudrajat, Engkos Achmad Kuncoro, and Hardijanto Saroso, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Anisa Larasati, Management Department, Bina Nusantara University, Indonesia and Business Administration, National Taiwan University of Science and Technology, Taiwan

Dennis Moeke, HAN University of Applied Sciences, Netherlands

ID 030 Traceability Architecture Technology for Short Commercial Exchange

John Jairo Aguilera Camacho, Jeniffer Paola Torres Salazar, Angela Maritza Mora Gómez and Lina Nataly Alvarado Riaño, Research Group EGE, Early Career Researcher Grizzly, Fundación Universitaria Panamericana – UNIPANAMERICANA, Bogotá D.C., Colombia

ID 102 Trading System Design Based on Cooperative Game for a Two-Level Supply Chain

Kotomichi Matsuno, Department of Business Design and Management, Graduate School of Creative Science and Engineering, Waseda University, 3-4-1 Okubo, Shinjuku-ku, Tokyo, Japan

4:00 – 5:45 pm, MONDAY

Education

Room 5

Session Chair: Imam Shofwan, Universitas Negeri Semarang, Indonesia

ID 645 Analysis of Ethnic Exploration, Ethnic Commitment, and Other Group Orientations in Javanese College Students

Mulawarman Mulawarman, Zakki Nurul Amin, Muslikah Muslikah and Sigit Hariyadi, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 646 Analysis of Cultural Arts Learning and Fine Arts Craftsmanship in Developing the Creativity of Students: Case Study in SDN 1 Ngampelkulon of Kendal District

Moh. Fathurrahman and Kurnia Iga Marystyana, Primary School Teacher Education Department, Faculty of Education, Semarang State University, Indonesia

ID 647 A Pedagogy of Multiliteracy in Developing Social Future of Rural Communities

Mintarsih Arbarini, Liliek Desmawati, and Tri Suminar, Department of Nonformal Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 648 School for Parents: Family Education Development throughout the First 1000 days of Life for Accelerating Stunting Reduction in Brebes Regency

Lita Latiana, Rina Windiarti, and Reni Pawestuti, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 650 Development of Design and Training Teaching Materials: Need-Oriented to Improve Pedagogical Competencies Among Learning

Imam Shofwan, Department of Nonformal Education, State University of Semarang, Building a Campus Sekaran Gunungpati Semarang, Indonesia

ID 651 Validation of Reflective Model Curriculum Evaluation Instruments

Istyarini, Niam Wahzudik, Wardi, and Nurussa'adah, Department of Curriculum and Educational Technology, Faculty of Science Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 652 Implementation of Cooperative Learning Model in Homeschooling Carnation

Imam Shofwan, and IrlanWidyana Santosa, Nonformal Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 653 Application Action Learning Approach for Character Building through Activities Student Go To Society

Fitria Dwi Prasetyaningtyas, and Sutaryono, Primary School Teacher Education, State University of Semarang, Indonesia

March 8, 2021 (Monday) - Session: 6:00 – 7:45 pm

6:00 – 7:45 pm, MONDAY

COVID-19 Analytics Competition

Room 1

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 753 Sentiment Analysis of Indonesian Citizen Compliance Representation in the Covid-19 Pandemic Period

Eneng Tita Tosida, Erniyati, and Krisna, Department of Computer Science, Universitas Pakuan, Indonesia, Jawa Barat, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 757 Understanding Millennial's Online Buying Behavior during Pandemic Covid-19

Nizam Mohammad Andrianto and Kiki Oktora, Departement of Management, Faculty of Economics, Universitas Pakuan, Bogor, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 771 The Use of E-Governance in Emerging Countries: A Case of South Africa during the COVID-19 Pandemic

Lerato Mofokeng, Eric Niyitunga, Annie Chikwanha and Chris Landsberg, Department of Politics and International Relations, University of Johannesburg, Johannesburg, South Africa

ID 638 Why Do I Survive? (Job Challenges and Risks of Work during COVID-19 Pandemic Don't Make Us Give Up)

Rahmawati Prihastuty, Dyah Ayu Rahmawati and dan Putri Dea Agestasia, Psychology Department, Faculty of Education, Universitas Negeri Semarang, Indonesia
Aji Sofanudin, Office of Religious Research and Development Semarang, Indonesia

ID 654 How Does Low Self Esteem Exacerbate Cyberchondria during the Covid-19 Pandemic?

Fatma Kusuma Mahanani, Dyah Ayu Rahmawati, Sukma Adi Galuh Amawidyati and Aminatun Masruroh, Department of Psychology, Educational Faculty, Universitas Negeri Semarang, Jawa Tengah, Indonesia

ID 658 Online Learning in the Time of Covid-19 Crisis: its Implementation and Challenges

Edi Subkhan, Haryono, and Heri Triluqman Budisantoso, Department of Curriculum and Educational Technology, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 659 The COVID-19 Pandemic, Problematic Internet Use, Self Esteem. Does it Matter? (Study in Indonesian College Student)

Dyah Ayu Rahmawati, Fatma Kusuma Mahanani and Sri Rahayu, Psychology Department, Faculty of Education, Universitas Negeri Semarang, Indonesia

6:00 – 7:45 pm, MONDAY

Smart Mobility and Smart Cities

Room 2

Session Chair: Dina Nurul Fitria Universitas Pertamina, Jakarta, Indonesia

ID 271 Design for Six Sigma (DFSS) applied to an innovative Electric Scooter

Giorgia Zippo, Pierpaolo Ruggiero, Irene Tedesco and Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, Viale Risorgimento 2, 40136, Bologna, Italy

ID 393 Supply Chain Network Design and Feasibility Investment for Charging Station of Electric Motorcycle Vehicle

Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology and Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Yuniaristanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 264 The Hourglass Model: From Consumer's Behavior to Delivery

Diogo Correia, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT)
University of Aveiro, Aveiro, Portugal
João Lourenço Marques, Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP), Department of Social, Political and Territorial Sciences (DCSPT), University of Aveiro, Aveiro, Portugal

ID 046 Comparative Life Cycle Impact Assessment of Regular Clamshell & Eco Clamshell

Kapish Dutta, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany
Yash Khandekar, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany
Kritesh Shridhar, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany

ID 450 Customization Measurement in Reconfigurable Manufacturing System (RMS)

Jesus Vital Kombaya Nadia Hamani and Lyes Kermad, Department of Industrial Engineering, University of Paris 8, Paris, France and University Picardie Jules Verne, Saint Quentin, France

ID 325 Inventory Management Framework to Drug Receiving Project at a Local Drug Store

Nitchakarn Prommarat, Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Salinee Santiteerakul, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

6:00 – 7:45 pm, MONDAY

Case Studies

Room 3

Session Chair: Dedi Sahputra, Universitas Medan Area, North Sumatera, Indonesia

ID 702 Political Dynasty in the Eye of the Community (Sociological Study of Political Awareness in Bima Regency Election 2020)

Imam Yuliadi, Department of Social Sciences, Institute of Social and Cultural Sciences Samawa Rea, Moyo Hulu, 84316, Indonesia
Sumitro, Department of Social Sciences, Institute of Social and Cultural Sciences Samawa Rea, Moyo Hulu, 84316, Indonesia
Edy Kurniawansyah, Department of Teacher Training and Education, Mataram University, Mataram, 5271101, Indonesia
Anwar, Department of Cultural Studies, Institute of Social and Cultural Sciences Samawa Rea, Moyo Hulu, 84316, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 722 A Qualitative Study of Ageing Society Facilities during Travelling: Case Study of Peninsular Malaysia

Wan Hamzah Wan Nur Adibah, Yahaya bin Ibrahim, and Yusnita Yusoff, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Terengganu, Malaysia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

ID 770 Environmental Performance Evaluation of Applying ISO 14001 in Laboratory

Rani Gustia, Dwi Nowo Martono, and Udi Syahnoedi Hamzah, School of Environmental Science, Universitas Indonesia, Jakarta, Indonesia

ID 779 Construction of Participatory Oversight of the Election Supervisory Agency in the Implementation of the 2020 Regional Head Election of South Konawe Regency (Study on the Utilization of Covid 19 Pandemic Social Assistance Ahead of the Pilkada)

Dewi Anggraini, M. Najib Husain and Sultrayansa, Faculty of Social and Political Sciences, Halu Oleo University, Indonesia

ID 775 Strengthening the Profession of Dance through Creative Process Management to Attract Tourism Performing Arts

Robby Hidayat, Pujiyanto, Muhammad Afaf Hasyimy, Sri Wulandari and EW. Suprihatin DP, Master of Fine Arts Teaching Study Program, Faculty of Literature, West Java, Universitas Negeri Malang, Indonesia
 Wiflihani, Music Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatera, Indonesia
 Inggit Prastiawan, Dance Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatera, Indonesia

ID 778 Optimization of Plantation Industry through Communication Management Implementation (Case Study)

Dedi Sahputra, Bahrum Jamil, Taufik Wal Hidayat, Ara Auza and Fauji Wikanda, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
 Beltahmamero Simamora and Marlina Deliana, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 700 Auto Coupling Program of MATLAB and CAD for Line Start Permanent Magnet Motor Design

Minh Dinh Bui, HUST, Vietnam

ID 725 The Performance Measure of Flexible Manufacturing System by Using Arena Software: Case of MRO Company.

Mohammed Alkahtani, Vice-Dean of Advanced Manufacturing Institute, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia
 Abdullah AlAnazi, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia
 Husam Kaid, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia

6:00 – 7:45 pm, MONDAY**Industry 4.0****Room 4**

Session Chair: Abhijeet Kumar, Tata Metaliks Limited, Kharagpur, West Bengal, India

ID 839 Industry 4.0 and Business Process Management: An Exploratory Study on the Bilateral Effects

Sara Castro, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810-193, Aveiro, Portugal

ID 826 Integration of Total Productive Maintenance and Industry 4.0 to increase the productivity of NC Bore machines in the Musical Instrument Industry

Indra Setiawan, Master of Industrial Engineering Student, Universitas Mercu Buana, Meruya Selatan No. 1 Street, Kembangan, Jakarta, Indonesia

ID 923 Hydraulic Pump Condition Monitoring for Ductile Iron Plants

Souradeep Bhattacharja, Hot Zone Mechanical Maintenance & Digital, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India
 Shekhar Anand, Hot Zone Mechanical Maintenance, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India
 Abhilash Kumar, Electrical & Instrumentation, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India

ID 924 Power Management System

Tushar Sinha, Electrical & Digital Department, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India
 Tushar K Mandal and Pankaj Pradhan, Electrical Department, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India

ID 928 Prediction of Trace Elements in Blast Furnace Hot Metal

Barun Kumar, Digital Solution Architect, IT & Digital, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India
 Hindol Bose, Assistant Manager, Quality Assurance, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India

ID 932 Sensor Mounted Robot Manipulator for Applications in Ductile Iron Pipe Industry

Abhijeet Kumar, and Om Prakash Bokare, Automations & Robotics, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India
 Vishwajeet Kumar Dwivedi, Electrical & Instrumentation, Tata Metaliks Limited, Kharagpur, 721301, West Bengal, India

6:00 – 7:45 pm, MONDAY**Education****Room 5**

Session Chair: Deasylina da Ary, Universitas Negeri Semarang, Indonesia

ID 655 Interactive Multimedia Plane Geometry-Based Adobe Flash for PGSD Students

Elok Fariha Sari, Nursiwi Nugraheni, Trimurtini, Nugraheti Sismulyasih Sb, and Moh Farizqo Irvan, Jurusan Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

ID 656 Learning Media "Healthy Lifestyle" in the Digital Era in the Pandemic Time

Eko Purwanti, Sony Zulfikasari, Basuki Sulistio, Feylosafia Putri Agry, Indonesia

ID 657 Tegalang Song as the Identity of Tegal Coastal Community

Eka Titi Andaryani, Doctoral Student of the Art Education, Semarang State University (UNNES), Jl. Kampus Timur, Sekaran, Kec. Gn. Pati, Kota Semarang, Jawa Tengah, Indonesia
Totok Sumaryanto, Udi Utomo, and Sunarto, Program Pasca Sarjana, Semarang State University (UNNES), Gedung A Kampus Pascasarjana Jl Kelud Utara III, Semarang, Indonesia

ID 660 Implementing Character and Nationalism in Inclusive Early Childhood Education Institutions

Diana, Neneng Tasu'ah and Akaat Hasjiandito, Department of Early Childhood Teacher Education, Universitas Negeri Semarang, Indonesia

ID 661 Implementation of Interactive Media Based Interactive Whiteboard in Natural Science Learning to Increase Literacy skills of Pre-service Teacher

Desi Wulandari, Barokah Isdaryanti, and Farid Ahmadi, Departement of Primary School Teacher Education, Semarang State University, Indonesia

ID 662 The Big Book Media Drawing for Third Class Elementary School

Deni Setiawan and Siti Nur Sa'adah, Elementary School Teacher Education Department, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 663 The Process of "Kuncup Semarang" Children Dance Choreography as a Conservation Effort of Semarangan Culture

Deasylina da Ary, Moh. Fathurrahman, Desi Wulandari, A. Busyairi, Fitria Dwi Prasetyaningtyas and Sukardi Sukardi, Department of Primary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

March 8, 2021 (Monday) - Session: 8:00 – 9:45 pm

8:00 – 9:45 pm, MONDAY

COVID-19 Analytics Competition

Room 1

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 671 Measuring the Implicit Memory Bias during Pandemic Covid-19 in University Students

Liftiah Liftiah, Sukma Adi Galuh Amawidyati, Abdul Haris Fitrianto, and Sugiaranti Sugiaranti, Department of Psychology, Faculty of Education, Universitas Negeri Semarang, Jl. Kampus Timur, Sekaran, Gunungpati, Semarang, Indonesia

ID 674 Analysis of Students' Academic Burnout and Anxiety during Online Learning in the Covid-19 Pandemic

Sunawan Sunawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
Zakki Nurul Amin, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
Bambang Sumintono, Malaya University, Malaya, Malaysia
Anne Hafina, Guidance and Counseling Department Program, Universitas Pendidikan Indonesia, Bandung, West Java, Indonesia
Ma'rifatin Indah Kholili, Guidance and Counseling Department Program, Universitas Sebelas Maret, Surakarta, Central Java, Indonesia

ID 678 Effective E-learning: Competency Analysis of Pedagogy Technology and Learning Process during the Covid-19 Pandemic

Muslihah Muslihah, Imam Shofwan, Reni Pawestuti Ambari Sumanto, Tri Murtini, and Fatma Mahanani, Faculty of Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 706 Investigating the Hospitalized Duration of Treatment for Patients Contracted to Covid-19

Abbas Mahmoudabadi and Maedeh Pourmirza Dogahi, Industrial Engineering & Information Technology Dept., MehrAstana University, Gilan, Iran

ID 709 Designing English-Teaching Model at the Remote Area Schools of Maluku in Covid-19 Pandemic Situation

Saidna Zulfiqar Bin-Tahir, A Yusdianti Tenriawali, M. Chairul Basrun Umanailo, and Risman Iye, Universitas Iqra Buru, Maluku, Indonesia

ID 1142 Resilient Capacity of Malaysian Schools' Headteachers in Adversity: A Review

Hamidah Che Abdul Hamid, Puspa Liza Ghazali, Ahmad Firdause, Nik Hazimi Mohamed Foziah and Eni Noreni Mohamad Zain, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengganu, Malaysia
Sukono, Universitas Padjadjaran, Bandung. West Java. Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1171 Courier Company Ranking with Sustainable Criteria during the Covid-19 Virus Outbreak using MOORA Method (Case: Courier Companies in Indonesia)

Mada Umara, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam and Wahyudi Sutopo, Research Group of Industrial Engineering and Techno-Economics, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 1210 Innovative Learning Media Based on e-Learning in the New Normal Era

Muhammad Mushfi El Iq Bali, Hasan Baharun, Ahmad Madanibillah, Chusnul Muali, Lukman, and Nanang Khoirul Anam, Nurul Jadid University, Probolinggo, East Java, Indonesia
Zamroni, Institut Agama Islam Negeri Samarinda, Borneo, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1213 BTQ Teaching Based on 'Vlog Teachers' on Youtube Channel during Pandemic Era: Theory and Practice of Online Teaching

Ahmad Fawaid, Ach. Zayyadi, Abd. Basid, Luthviyah Romziana, Rifqatul Husna, Nur Farida, Sumiati, and Moh. Juri Andropo, Nurul Jadid University, Probolinggo, East Java, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

8:00 – 9:45 pm, MONDAY**Healthcare Operations and Healthcare Engineering****Room 2**

Session Chair: N. Harraz, Production Engineering Department, Alexandria University, Alexandria, Egypt

ID 834 Modelling Logistics Cost In Hospital: A Case of Medical Products

Chanrong Khem, Department of Industrial Engineering, Mahidol University, Nakhon Pathom, Thailand

Duangpun Kritchanhai, Department of Industrial Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 888 A Capability Index for the Filipino Elderly Home Care: A Community Based Approach

Karlvin V. Pambid, Lawrence G. Vicente, and Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Manila, Philippines

ID 891 Future Trends of Dynamic Clustering in Medical Records: Literature Review and Research Needs

Faiza Renaldi, Devi Fajar Wati, Tania Nafisya, Zaki Tifani Fauzan, and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 944 Literature Review and Research Needs on the Use of REST API for Medical Record Integration

Faiza Renaldi, Hary Suryanto, Devita Dwitama Putri Baron, Azwar Tri Endrayadi, Irma Santikarama, and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 999 Cyclical, Public Policy, Assignment And Care. Simón Bolívar Hospital Colombia

Wilson A. Pinzón R., Technology Faculty, Francisco José de Caldas District University, Bogotá, Colombia.

Fabián Roldán, Facultad de Ingeniería Universidad Javeriana Bogotá, Colombia

Angie P. Hernández, Axa Colpatria, Colombia

Diego Karachas, School of Basic Sciences, Technology and Engineering ECBTI-UNAD National Open and Distance University Bogotá, Colombia.

José M. Díaz P., UVD Business School, Universidad Minuto de Dios, Bogotá, Colombia.

Carlos A. León G., Porvenir S.A. Colombia

ID 901 An Overview of Radon Concentrations and Risk Factors in Elementary School Classrooms: Systematic Literature Review 2010-2020

Astuti, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

Mila Tejamaya, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

ID 930 Profile of Bioaerosol Contamination in Indoor Air Primary School: Systematic Literature Review 2016 - 2020

Riasa Roshaliha, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

Mila Tejamaya, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

ID 791 Master Surgical Schedule with Minimized Blocking Between Stages and Leveled Bed Occupancy

D. Sheweita, H. Fors, and N. Harraz, Production Engineering Department, Alexandria University, Alexandria, Egypt

8:00 – 9:45 pm, MONDAY**Operations Management****Room 3**

Session Chair: Nkosinathi Siyabonga Kubheka, University of Johannesburg, Doornfontein, Johannesburg, 2092, South Africa

ID 827 The Determinants of Capital Structure in Manufacturing Companies Listed on the Indonesia Stock Exchange

Widaryanti, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Pelita Nusantara, Semarang, Indonesia

Wisdalia Maya Sari, Faculty of Economics and Business, Bina Insan University, Lubuklinggau, Sumatera Selatan Indonesia

Kurniati Karim, Sekolah Tinggi Ilmu Ekonomi (STIE) Sakti Alam Kerinci, Jambi, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 991 Room for Improvement? – Current issues in highly automated manufacturing

Christoph Szedlak, Kristin Wagner, and Bert Leyendecker, University of Applied Sciences Koblenz, Faculty of Operations Management, Konrad-Zuse-Str. 1, 56075 Koblenz, Germany

ID 994 Automated decisional process for material and equipment selection: Application to the selection of material for water pipes

Afaf Jghamou, Control and Mechanical Characterization of Materials and Structure Laboratory, ENSEM, Hassan II University of Casablanca, Casablanca, Morocco

Salma Lahbabi, Engineering Research Laboratory (LRI) ENSEM, Hassan II University of Casablanca, Data Modeling Simulation, Mohammed VI Polytechnique University (UM6P), Morocco

Fouad Riane, Complex Systems and Interactions, Industrial Engineering Department, Ecole Centrale Casablanca, Casablanca, Morocco

ID 889 Scheduling Footwear Moulding Injection Machines for a Long Time Horizon

Parisa Sadeghi, Luís Guardão and Rui Diogo Rebelo, INESC TEC - Technology and Science, Campus da FEUP, Rua Dr. Roberto Frias, Porto, Portugal

José Soeiro Ferreira, INESC TEC - Technology and Science and Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, Porto, Portugal

ID 968 Flexible Job-Shop Scheduling Problem with Sequencing Flexibility for Just-In-Time Production Systems

Alejandro Vital-Soto and Jessica Olivares-Aguila, Shannon School of Business, Cape Breton University, Sydney, NS, B1P 6L2, Canada

ID 927 Optimum Maintenance Decision using Reliability Analysis

Md. Ariful Alam, Dept. of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur, Bangladesh
Kazi Arif-Uz-Zaman, Rafat Mahmud Hridoy, and Md. Rafiquzzaman, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

ID 850 Investigation of Cracks and Damages at the Bends of Soot Blower tubes

Nkosinathi Siyabonga Kubheka and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building, 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

8:00 – 9:45 pm, MONDAY

Machine Learning

Room 4

Session Chair: Pravin P. Tambe, Operations Management & Decision Sciences, Indian Institute of Management Tiruchirappalli, India

ID 823 Comparative Analysis of Integrating Multiple Filter-Based Feature Selection Methods Using Vector Magnitude Score on Text Classification

Abubakar Ado, Mustafa Bin Mat Deris and Noor Azah Binti Samsudin, Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia, Batu Pahat 86400, Malaysia
Abdulkadir Abubakar Bichi, Computer Science Department, Universiti Teknologi Malaysia, Johor, Malaysia
Aliyu Ahmed, Computer Science Department, Bauchi State University, Gadau, Nigeria

ID 860 Conceptual Model of Stock Price Movement Prediction using Combinative Machine Learning

Ervandio Irzky Ardyanta, Hasrini Sari, and Aditya Parama Setiaboedi, Industrial Engineering and Management Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 844 Resiliency of Manufacturing Systems in the Industry 4.0 Era – A Bibliometric Analysis

Ahmad E. Elhabashy, Sara El-Breshy, and Hadi Fors, Production Engineering Department, Alexandria University, Alexandria, 21544, Egypt
Asmaa Harfoush, School of Mechanical, Industrial, and Manufacturing Engineering, Oregon State University, Corvallis, OR, 97331, USA

ID 881 Critical Success Factors for Internet of Things (IoT) Implementation in Automotive Companies: Literature Review

Inaki Maulida Hakim, Department of Industrial and Systems Engineering, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia and Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
Moses Laksono Singgih and I Ketut Gunarta, Department of Industrial and Systems Engineering, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 899 A Genetic Algorithm Approach for Scheduling Jobs on Identical Parallel Machines

Pravin P. Tambe, Operations Management & Decision Sciences, Indian Institute of Management Tiruchirappalli, India

8:00 – 9:45 pm, MONDAY

Education

Room 5

Session Chair: Ika Ratnaningrum, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

ID 664 Online Learning as Education Technology Implementation in Elementary Schools of Semarang City

Budiyono, Kustiono, Heri Triluqman BS, and Sony Zulfikasari

ID 665 Innovation of Curriculum Content Proportion in the Khilafah and Jihad Theme to Minimize Students' Exposure to Radicalism at Public Madrasah Aliyah in Semarang (Solutive Efforts to Analyze Content of Islamic Education Learning Tools Syllabus)

Ali Sunarso, PGSD FIP Semarang State University, Indonesia

ID 666 Makakamba-makakimbi: the original religion of the donggo community before entering the official religion in BIMA

Usman Jafar, Hukum Tata Negara Islam Fakultas Syariah dan Hukum, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Surayah Rasyid, Sejarah dan Kebudayaan Islam Fakultas Adab dan Humaniora, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Aksa, Sejarah dan Kebudayaan Islam Fakultas Adab dan Humaniora, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Sabara, Balai Penelitian dan Pengembangan Agama Makassar, Makassar, 90111, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 667 Integration of Technology in Learning Science Subjects Elementary School Fostering the Soul of Love of the Motherland

Arini Estiastuti, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Kurniana Bektiningsih, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

ID 668 Creativity and Innovative Choreography through Digital Learning

Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Ika Ratnaningrum, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Muhammad Jazuli, Pendidikan Sendratasik, Fakultas Bahasa dan Seni, Universitas Negeri Semarang, Indonesia

ID 669 The Effect of Work Motivation and Organisation Atmosphere On The Tutors' Performance At Ex-Karisidenan Kedu and Ex-Karisidenan Semarang Central Java

Hendra Dedi Kriswanto, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Semarang, Indonesia
Sugito Sugito, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Yogyakarta, Indonesia
Imam Shofwan, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 670 Online Animated Video-Based Educational Media Innovation Powtoon in Dance Art Learning in Elementary School
Ika Ratnaningrum and Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

March 9, 2021 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:20 am, TUESDAY

Global Engineering Education I

Room 1

Session Chair: Sheikh F. Ferdous, Indiana State University, Terre Haute, IN 47809, USA

8:00 – 8:20 (Tuesday) – Room 1

Dr. David Lin Weidong

Assistant Professor

Singapore Institute of Technology (SIT)

Certified Six Sigma Black Belt by American Society of Quality.

ID 241 An Integrated Engineering Education Alignment Model towards Industry 4.0

W. D. Lin and M. Y. H. Low, Singapore Institute of Technology, Singapore

8:20 – 8:40 (Tuesday) – Room 1

Josephine D. German

Associate Professor

School of Industrial Engineering and Engineering Management

Mapua University

Manila, Philippines

ID 475 Employability and Achievement of Program Educational Objectives: A Graduate Tracer Study for Industrial Engineering (IE), Engineering Management (EMG), and Service Engineering Management (SEM) Programs of an HEI in the Philippines

Josephine D. German, Ma. Lourdes O. Buan, Alyana Bianca G. Carreon, and Marjorie Joyce D. Ochoa

School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

8:40 – 9:00 (Tuesday) – Room 1

Dr. Boon Leing TAN

Guest Professor

Xi'An International University

Singapore

9:00 – 9:20 (Tuesday)

Sheikh F. Ferdous

Department of Applied Engineering and Technology Management

Indiana State University

Terre Haute, IN 47809, USA

ID 090 Comparing Ph.D. in Engineering Management and Technology Management Programs

Sheikh F. Ferdous, M. Affan Badar, James N. McKirahan, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, IN 47809, USA

8:00 – 9:45 am, TUESDAY

Construction Management

Room 2

Session Chair: Marvis B. Halili, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila 1002, Philippines

ID 513 Construction industry and women: A review of the barriers

Abdussalam Shibani, Coventry University, Coventry, United Kingdom

ID 003 Construction Material Ordering Policy Framework: Mamdani Approach

Siddharth Gupta, Gunjar Ahuja, and Girish Kumar, Department of Mechanical Engineering, Delhi Technological University, Delhi-110042, India

Rajesh Kumar Singh, Management Development Institute, Gurgaon-122007, India

ID 792 Modelling Critical Success Factors of Green Building towards Sustainable Construction in United Arab Emirates

Saleh Al-Subari, UTHM, Malaysia

ID 903 A Systematic Review to Establish a Definition for Natural Disaster Preparedness

Senuri Siriwardhana and Udayangani Kulatunga, Department of Building Economics, University of Moratuwa, Sri Lanka

Terrence Fernando, School of Science, Engineering and Environment, University of Salford, United Kingdom

ID 948 A Review of Purchases Intention, Marketing Mix and Brand Loyalty Literature: Mini Review Approach

Muzayyanah Yuliasih and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 946 A Review of Structural Relationship of Driver Factors that Influencing Job Satisfaction and Job Performance Literature: Mini-Review Approach

Fairul Hisyam bin Mat, Ahmad Munir Mohd Salleh and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 822 Optimization of Overall Equipment Effectiveness through Lean and Total Productive Maintenance in a Cement Paper Bag Manufacturing Company

Marvis B. Halili, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila 1002, Philippines

8:00 – 9:45 am, TUESDAY

Artificial Intelligence

Room 3

Session Chair: Rawinun Prasertaweelap, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand

ID 540 A Literature Survey on Instance Specific Algorithm Configuration Methods

Yasemin Eryoldaş and Alptekin Durmuşoğlu, Department of Industrial Engineering, Gaziantep University, Turkey

ID 237 AI-Based Human-Robot Cooperation for Flexible Multi-Variant Manufacturing

Manuel A. Ruiz Garcia, Erwin Rauch and Damiana Salvalai, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, 39100 Bolzano, Italy

Dominik T. Matt, Fraunhofer Italia Research 39100 Bolzano, Italy

ID 384 Application of Artificial Intelligence in Additive Manufacturing- A Review

M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, INDIA

ID 474 Artificial Intelligence: The Solution to Curb the Evergrowing Suicide Rates

Yosha Sandra, Bangalore, Karnataka, India

ID 389 How Artificial Intelligence is expected to change Executive Education?

Emma Friman and Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, Gothenburg, Sweden

ID 366 Toxic Comment Classification using Transformers

Akash G., Himanshu Kumar and Bharathi D., Department of Computer Science, Amrita School of Engineering, Coimbatore, India

ID 836 Optimal Path planning on Multi-Robot Task Allocation for Manufacturing with Artificial Bee Colony Algorithm

Rawinun Prasertaweelap and Somyot Kiatwanidvilai, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand

8:00 – 9:45 am, TUESDAY

Operations Research

Room 4

Session Chair: Sabreen Hassan, Industrial Engineering, Alexandria University, Alexandria, Egypt

ID 044 Critical Factors of Supplier Selection in the Food and Beverage Industry of Saudi Arabia a Fuzzy-TOPSIS Approach

Khaled A. Alshehri and Ahmed A. Albukhari, Department of Industrial Engineering, Faculty of Engineering – Rabigh, King Abdulaziz University, Jeddah, Saudi Arabia

ID 119 MISOCIP Relaxations for the Unit Commitment Problem with AC Power Flows

Deniz Tuncer and Burak Kocuk, Industrial Engineering Program, Sabanci University, Istanbul, Turkey

ID 012 Optimal Restoration of Community Structures for Enhancing Interdependent Infrastructure Network Resilience

Yasser Almoghathawi, Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

ID 350 Ranking of Indian Business Schools using Modified TOPSIS Method

Chandan Jha and Amit Sachan, Operations Management Department, Indian Institute of Management Ranchi, Ranchi, 834001, India

ID 409 Supplier Selection using Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) Method: A Case Study

Sulvi Fitriani, and Syifa Luthfiana Asnan, Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 734 Theoretical and Simulation Approaches Centrality in Social Networks

Mochamad Suyudi, and Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 452 Creation of an Instrument to Measure the Impact of a Cluster on its Members' productivity

Karol Stephany Villarreal-Zambrano, Engineering Department, Universidad de Monterrey, Monterrey, México
Luz María Valdez-de la Rosa, Engineering and Technologies Department, Universidad de Monterrey, Monterrey, México

ID 510 The Integrated Dial-A-Ride-Problem: Fixed Route Selection

Sabreen Hassan, Islam Ali, and M. Nashat Fors, Industrial Engineering, Alexandria University, Alexandria, Egypt

8:00 – 9:45 am, TUESDAY**Case Studies****Room 5**

Session Chair: Firman Gazali Djunaedi, Universitas Iqra Buru, Indonesia

ID 1049 Social Capital in the Indonesian General Election 2019

Rudy Kurniawan, and Andries Lionardo, Faculty of Social and Political Studies, University of Sriwijaya, Palembang, Indonesia
 Ivana, STISIPOL Candradimuka, Palembang, Indonesia
 Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1041 The Effectiveness Of Demonstration Methods In Learning Poetry For Grade X Students

Ibnu Hajar, Universitas Iqra Buru, Indonesia

ID 1045 The Effectiveness of the Inquiry Method in Appreciating Poetry of The PGRI Waepotih Middle School Students in Buru Regency

A. Yudianti Tenriawali, Universitas Iqra Buru, Maluku, Indonesia

ID 1028 The Implementation of the Jigsaw Type Cooperative Method On Writing Poetry in Senior High School Buru

Iin Sulastri Ide Ami, Universitas Iqra Buru, Indonesia

ID 1079 The Role Of Women In Tourism In Sade Village, Lombok, Indonesia

Deviana Mayasari, Ph.D Candidate, Graduate Sociology in Faculty of Social and Politic Sciences, Universitas Brawijaya, Malang, Indonesia
 Sanggar Kanto, Siti Kholifah and Bambang Dwi Prasetyo, Postgraduate lecturer in Faculty of Social and Political sciences, Universitas Brawijaya, Malang, Indonesia
 M. Chairul Basrun Umanailo, Department of Agricultural and Forestry University of Iqra Buru, Namlea, Indonesia

ID 1063 Increased Patient Satisfaction and Loyalty in terms of Facility Aspects and Health Worker Performance

Cecilia Handari Erna Setyorini, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
 Hendra Gunawan, Abubakar Betan, Ikhsan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
 A. Suparlan Isya Syamsu, Pharmacy Department, Universitas Megarezky, Makassar, Indonesia
 Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 1027 The Effect of Customer Satisfaction on Customers Loyalty at the Green Mart Supermarket in Namrole City

Firman Gazali Djunaedi, Universitas Iqra Buru, Indonesia

March 9, 2021 (Tuesday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:30 – 9:40 am, March 9, Tuesday - **Welcome Keynote**

Professor Cheong Hee Kiat

President, Singapore University of Social Sciences

9:40 – 10:20 am, March 9, Tuesday - **Keynote II – Opening Keynote**

Dr. Hamid R. Parsaei

Professor, Dept. of Industrial and Systems Engineering
 Texas A&M University, College Station, Texas, USA

10:20 – 11:00 am, March 9, Tuesday - **Keynote III**

Alex Teo

Vice President & Managing Director – South East Asia
 Siemens Digital Industries Software, Singapore

11:00 – 11:40 am, March 9, Tuesday - **Keynote IV**

Dr. Chung Piau TEO

Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA)
NUS Business School, National University of Singapore

11:40 am – 12:20 pm, March 9, Tuesday - **Keynote V**

Dr. Benny Tjahjono

Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster
Centre for Business in Society, Coventry University, UK

12:20 – 1:00 pm, March 9, Tuesday - **Keynote VI**

Dr. Lu ZHEN

Dean and Professor, School of Management
Shanghai University, Shanghai, China

March 9, 2021 (Tuesday) - Session: 1:00 – 2:45 pm

1:00 – 2:45 pm, TUESDAY**Global Engineering Education II****Room 1**

Session Chair: Professor Ir. Dr. Mohammad Yeakub Ali, Universiti Teknologi Brunei, Darussalam

1:00 – 1:20 (Tuesday)

Dr. Jafri Mohd Rohani

Head of the Industrial Engineering Programme
Department of Materials, Industrial and Manufacturing Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Malaysia

Curriculum Design/ Benchmarking of Industrial Engineering Program

1:20 – 1:40 (Tuesday)

Dr. Moe Moe Myint

Associate Professor
Department of Information Technology
Technological University (Mandalay)
Myanmar

ID 536 An Explorative Study to build the Work Readiness for Engineering Students

Moe Moe Myint, Thiri Kyaw and Zin May Zaw, Department of Information Technology, Technological University (Mandalay), Myanmar

1:40 – 2:00 (Tuesday)

Dr. Kinnaeth VONGCHANH

Senior Lecturer-Research
Thermal Laboratory
Department of Industrial and Mechanical Engineering
Institute of Technology of Cambodia (ITC)
Phnom Penh, Cambodia

2:00 – 2:20 (Tuesday)

Soma Chakrabarti, Ph.D.

Education Programs Team Lead
Ansys Granta
Cambridge, CB1 7EG, UK

2:20 – 2:40 (Tuesday)

Professor Ir. Dr. Mohammad Yeakub Ali

PhD. (NTU, Singapore), MEng (AIT, Thailand), BSc Eng (BUET, Bangladesh)
 p.Eng. (Malaysia), C. Eng. (UK), CP. Eng. (Australia), P. Eng (Bangladesh)
 FIEB, FBSME, MIMechE, MIEAust MASME, MIEM
 Mechanical Engineering Programme
 Faculty of Engineering
 Universiti Teknologi Brunei
 Brunei Darussalam
 Editor-In-Chief: International Journal of Engineering Materials and Manufacture

Quality Assurance in Engineering Education: Accreditation & Its Global Influence

1:00 – 2:45 pm, TUESDAY

Case Studies

Room 2

Session Chair: Salwa Beheiry, American University of Sharjah, Sharjah, United Arab Emirates

ID 013 Quality Management System ISO 9001 Implementation in the Telecom Network Operation Centre – A Case Study

Diana Ortiz-Rangel, and Luis Rocha-Lona, ESCA Santo Tomas, Instituto Politecnico Nacional, Mexico City, Mexico
 Lila Margarita Bada-Carbajal, Instituto Tecnológico Superior de Alamo Temapache, Veracruz, Mexico
 Jose Arturo Garza-Reyes, and Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 428 Relationship between Gender, Grade Point Average (GPA) and Student Anxiety during the Covid-19 Pandemic

Gadih Ranti, and Linda Theresia, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia

ID 081 Selection of Reverse Logistics Service Provider Using AHP- Improved PROMETHEE Based Hybrid Approach: A Case Study

Arvind Jayant, Department of Mechanical Engineering, SLIET Deemed to be University, Longowal, Sangrur, Punjab, India

ID 608 The Role of Agencies in Implementing the Social Development Programs to Improve the Well-being of Orang Asli Communities in Terengganu, Malaysia

Norhayati Ab Manaf, Khatijah Omar, and Md Khairul Azwan Md Razali, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Ramle Abdullah, Research and Publishing Centre, National Academy of Arts Culture and Heritage, 464, Jalan Tun Ismail, Kuala Lumpur, Malaysia
 Jumadil Saputra, and Siti Nor Adawiyah Azzahra Kamaruddin, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 704 Deiksis Persona Language Waetawa Maluku

Ilham Bachtiar, and Isal Anwar Hasan, Department of Communication, Institute of Social and Political Sciences Yapis Biak, West Papua, Indonesia
 M Rusdi, Department of Islamic Education, University of Iqra Buru, Namlea, 97571, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia
 Ismail, Sekolah Tinggi DDI Pangkep, Indonesia

ID 681 The Linkages between Social Media and Political Participation among Malaysian Youth

Rosyidah Muhamad, Rohana Ahmad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 521 Social Housing and Retrofitting in the UAE – A scoping study

Salwa Beheiry, Hasan Mahmoud, and Vian Ahmed, American University of Sharjah, Sharjah, United Arab Emirates

1:00 – 2:45 pm, TUESDAY

Business Management

Room 3

Session Chair: Bachtiar H. Simamora, Binus Business School, Undergraduate Program Management, Bina Nusantara University, Jakarta, Indonesia

ID 164 Qualitative Analysis of Filipino Employees' Romantic Workplace Relationships

Lenelle M. Modesto, Jhon Kyneth A. Bisnar, Marielle Anne M. Navarro, Paul Albert J. Buiza, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 114 Relationship between the Power Law Distribution of the Number of TV Viewer's Contact with Commercials and Advertising Expenditure

Kizuna Ueda, Ayuko Komura, and Hirohisa Hirai, Department of Industrial Engineering and Management, Kanagawa University, Kanagawa, Japan

ID 004 Socio-Economic Factors Affecting Environmental Awareness and Knowledge of Consumers' Purchasing Behaviour of Green Products: A Study of Semarang Regency

Aries Susanty, Muhammad Mujiya Ulkhaq, Nia Budi Puspitasari, Heru Prastawa, Pradita Yusi Akshintia, and Pradhipta Listyawardhani, Industrial Engineering Department, Diponegoro University, Semarang, Indonesia

ID 340 Sustainable Leadership: A Scientific Literature Positioning using Scientometric Analysis

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
 Andre Septianto, Chemical Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia
 Fatkul Anam, Mathematic Education Department, Universitas Wijaya Kusuma Surabaya, Surabaya, Indonesia
 Ardhana Rahmayanti, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia
 Masdar Wiyono, Informatic Department, Universitas Bahaudin Mudhary Madura, Sumenep, Indonesia

ID 611 The Dimensions of Organizational Culture Influence on Organizational Performance in Pakistan's Public Banking Sector
Muhammad Imran and Fadillah Ismail, Faculty of Technology and Business Management, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, 86400, Malaysia

ID 509 The Influence of Self-Efficacy, Trust and Affective Commitment on Competitive Share Leadership
Ahmad Rizali, Student of Management Doctoral Program, Universitas Sriwijaya, Palembang, Indonesia
Badia Perizade, Sulastri, and Agustina Hanafi, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia

ID 549 Optimization Using Decisions Tree and Linear Programming
Bachtiar H. Simamora and Annabeth Shandika, Binus Business School, Undergraduate Program Management, Bina Nusantara University, Jakarta, Indonesia
Yuli Eni, Binus Business School, Undergraduate Program Marketing, Bina Nusantara University, Jakarta, Indonesia

1:00 – 2:45 pm, TUESDAY**Lean Six Sigma****Room 4**

Session Chair: Abdul Hannan, University of the Punjab, Lahore, Pakistan

ID 965 Lean and Kaizen Application in the Healthcare during the COVID-19 Pandemic
Jason Kumar, Candidate for B.S in Mechanical and Industrial Engineering, Northeastern University, Boston, MA 02120, USA

ID 381 Lean assessment studies in a Milk Bottling Plant
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 403 Leanness Assessment in an Auto Parts Manufacturer
Mahdiah Moghadam Arjmand, and Masoud Rahiminezhad Galankashi, Department of Industrial, Mechanical and Aerospace Engineering, Buein Zahra Technical University, Buein Zahra, Qazvin, Iran
Syed Ahmad Helmi, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310, Johor Bahru, Malaysia and, Center for Engineering Education, Universiti Teknologi Malaysia, 81310, Johor Bahru, Malaysia

ID 039 Product Defects Analysis Using Six Sigma Method – A Case Study at Rice Milling Company
Indah Chyntia Bella Rosa, Tiara Risa Damayanti, Ade Lita Kusumaningrum, and Sri Susilawati Islam, Industrial Engineering Study Program, Sampoerna University, Jakarta, Indonesia

ID 546 Productivity assessment studies in Solenoid valve manufacturing Company – A Case Study
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 824 Improving the quality of IndiHome services using six sigma DMAIC method: Case in industrial area
Abby Yazid Bustommy, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
Dana Santoso Saroso, Master of Industrial Engineering Program, BRI Institute, Jakarta, Indonesia
Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 258 Improvement in the Performance of Computer Numeric Controlled (CNC) Router by OEE for Digital Pattern Manufacturing
Abdul Hannan, Shazray Khan and Sana Hassan, Institute of Quality & Technology Management, University of the Punjab, Canal Bank Road, Lahore, Pakistan

1:00 – 2:45 pm, TUESDAY**Operations Management****Room 5**

Session Chair: Yusep Mulyana, Universitas Pasundan, Bandung, Indonesia

ID 1062 Career Development and Motivation for the Quality of Nursing Services
Yuriska Kuka, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hasmin Tamsah, Trimaya Cahya Mulat, Iksan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
Ryryn Suryaman Prana Putra, STIKES Pelamonia Kesdam VII Wirabuana, Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 1051 Challenges of Public Administration Reform in the Industrial Age 4.0
Derriansya Putra Jaya, University of Sriwijaya, Palembang, Indonesia
Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
Andries Lionardo, University of Sriwijaya, Palembang, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1058 Effect of Work Stress and Workload on Employee Performance through the Work Environment
Aryo Dwi Wibowo, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hasmin Tamsah, Umi Farida, Irwan Rasyid, and Nasruddin Nawawi, STIE AMKOP, Makassar, Indonesia
Meizar Rusli, Universitas Pancasila, Jakarta, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 1066 The Influence of the Use of Regional Information Systems and Organizational Commitment on the Performance of Financial Report Compilation through Work Ability
Wahida, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Mattalatta, Hasan Nongkeng, Muhammad Yahya, and Irwan Rasyid, STIE AMKOP, Makassar, Indonesia
Ika Swasti Putri, STIE Adi Unggul Bhirawa, Surakarta, Indonesia

Saidna Zulfiqar bin Tahir, Universitas Iqra Buru, Maluku, Indonesia

ID 1061 Work Commitment is a Mediator Nursing Management on Quality of Nursing Services Inpatient Community Health Centres

Windawaty Humola, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
 Hasmin Tamsah, Trimaya Cahya Mulat, Iksan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
 Hendrian Chaniago, Universitas Muslim Indonesia, Makassar, Indonesia
 Iin Dwi Aristy Putri, Universitas Cokroaminoto, Palopo, Indonesia

ID 1053 Big Data Analytics in Handling Mechanisms of Transforming Healthcare Performance: An Approach Technological Management in Addressing Nurse Workloads in Emergency Department

Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
 Andries Lionardo, and Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
 Ivana, STISIPOL Candradimuka, Palembang, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1059 High Domestic Violence during the Pandemic COVID-19

Yusep Mulyana, Universitas Pasundan, Bandung, Indonesia
 Zarina Akbar, Universitas Negeri Jakarta, Indonesia
 Henni Zainal, Universitas Indonesia Timur, Makassar, Indonesia
 Firzhal Arzhi Jiwantara, Universitas Muhammadiyah Mataram, Mataram, Indonesia
 Muhsyanur, IAI As'adiyah, Sengkang, Indonesia
 Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia
 Saidan Zulfiqar Bin-Tahir, Universitas Iqra Buru, Maluku, Indonesia

March 9, 2021 (Tuesday) - Session: 3:00 – 4:45 pm

3:00 – 4:45 pm, TUESDAY

Global Engineering Education III

Room 1

Session Chair: Dr. Devinder Banwet, Vice Chancellor Founding, University of Engineering & Management, Kolkata India

3:00 – 3:20 (Tuesday) – Room 1

Corina Pacher

Resources Innovation Center
 Montanuniversitaet Leoben
 Franz Josef-Strasse 18, 8700 Leoben, Austria

ID 282 Virtual E-Learning Community Hub – For Higher Education in the Raw Materials Sector

Corina Pacher and Mariaelena Murphy, Resources Innovation Center, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria

3:20 – 3:40 (Tuesday) – Room 1

Matteo De Marchi

Smart Mini Factory lab for Industry 4.0
 Research Group Industrial Engineering and Automation (IEA)
 Free University of Bolzano
 Italy

ID 249 A Descriptive Analysis for Education and Training on Automation 4.0 in Thailand

Erwin Rauch and Matteo De Marchi, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, Bolzano 39100, Italy
 Prajaks Jitngernmadan, Digital Media and Interaction Laboratory, Faculty of Informatics, Burapha University, Chon Buri 20131, Thailand
 Felipe M. Martin, Department of Electrical Engineering, Universidad de Oviedo, Área de Ingeniería de Sistemas y Automática Gijón 33204, Spain

3:40 – 4:00 (Tuesday) – Room 1

Dr. Md. Mizanur Rahman, CEng, Chartered Energy Engineer

Senior Lecturer
 School of Mechanical Engineering
 University Technology Malaysia (UTM)
 Skudai, Johor Bahru, Malaysia

4:00 – 4:20 (Tuesday) – Room 1

Dr. Tiia Rüttnann

Associate Professor Engineering Pedagogy/Higher Education Pedagogy
 Ph.D Education (Engineering Pedagogy); M.Sc. Chemical Engineering
 Head of Estonian Centre for Engineering Pedagogy
 School of Engineering

Tallinn University of Technology TalTech
Tallinn, Estonia

4:20 – 4:40 (Tuesday) – Room 1

Dr. Devinder Banwet

Vice Chancellor Founding
University of Engineering & Management
Kolkata India
Professor Emeritus, IIT Delhi

NEP 2020 and Pandemic impact disruption impact on Indian Education: Teaching Learning Evaluation Assessment: Some observations and remedies

3:00 – 4:45 pm, TUESDAY

Energy

Room 2

Session Chair: B. Kamara, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 206 Evolution of Energy Culture in Energy Behavior Research in Buildings

Dumindu Soorige, Lalith De Silva and Udayangani Kulatunga, Department of Building Economics, University of Moratuwa, Katubedda, Moratuwa, Sri Lanka
Gayani Karunasena and Muhammad Nateque Mahmood, School of Architecture and Built Environment, Deakin University, Geelong, VIC, Australia

ID 053 Fighting Poverty Gap through Literacy and Electricity: A Case from Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Aleksander Purba, Civil Engineering Department, Faculty of Engineering, Universitas Lampung-Bandar Lampung 35145, Indonesia

ID 199 Fuel from Plastic Wastes for Sustainable Energy and Environment

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 214 Hybrid AI Based Utility-Scale Optimized Renewable Energy Mix

Ahmed Al Masarani, and Salwa Ammach, Graduate Student, Master in Energy Engineering, College of Engineering, Effat University, Jeddah, Saudi Arabia
Asmaa Shams, Electrical and Computer Engineering, College of Engineering, Effat University, Jeddah, Saudi Arabia
Hadeer Hassan, and Leen Koshak, Computer Science Department, College of Engineering, Effat University, Jeddah, Saudi Arabia
Tayeb Brahimi, Energy Research Lab, College of Engineering, Effat University, Jeddah, Saudi Arabia

ID 391 Industry 4.0: A Pathway for Development of Geothermal Energy Sector

Preyansh Malaviya and M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 1011 Towards the Development of an Energy Audit Program for Residents in Freetown

B. Kamara, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa
S. Kamara, Department of Mechanical Engineering, Fourah Bay College, University of Sierra Leone, Sierra Leone
J.A.S. Redwood-Sawyer, Department of Electrical Engineering, Fourah Bay College, University of Sierra Leone, Sierra Leone
D.V.V Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

3:00 – 4:45pm, TUESDAY

Human Factors & Ergonomics

Room 3

Session Chair: Paul Jan V. Saguyod, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 263 Estimating the reading time of Familiar and Non-Familiar words

Sunthon Sangthong, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand
Arisara Jiamsanguanwong, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand

ID 143 Redesign of Supermarket Check-Out Counter Using Ovako Working Posture Analysis System (OWAS) and Rapid Entire Body Assessment (REBA)

Alfred Joshua S. Aquino, Roland B. Batucal and Edlyn D. Pangilinan, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines
Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines

ID 558 The Development of Technology Acceptance Model of Train Ticket Booking Application considering Web Quality and Social Influence

Fachri Raziq El Ahmady, Ratna Sari Dewi, and Retno Widyaningrum, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 471 The effect of Icon Formats on Recognizability of Traffic Signs

Ratna Sari Dewi and Miftachur Rohmatin, Industrial and Systems Engineering Department, Institut Teknologi Sepuluh Nopember, Kampus ITS Keputih, Sukolilo, Surabaya, Indonesia

ID 425 The Effect of Perceived Enjoyment in The Use Of Virtual Reality in The Technology Acceptance Model Of Virtual Reality

Riski Arifin, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia
 Adithya Sudiarno, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

ID 417 The Influence of Age on Mental Workload in High Difficulty Assembling Plant

Linda Theresia, Gadih Ranti, and Ni Made Sudri, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia

ID 467 Workstation Design for Machines on Selected Apparel Manufacturers

Paul Jan V. Saguyod, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

3:00 – 4:45pm, TUESDAY**Supply Chain Management****Room 4**

Session Chair: Tanja Nathan, Centre for Business in Society, Coventry University, Coventry CV1 5FB, UK

ID 993 Supply Chain Integration in Project-Based Organizations and its Effect on Performance

Younis Jabarzadeh and Rahim Najafi, Department of Management, University of Tabriz, Tabriz, Iran
 Vikas Kumar, Bristol Business School, University of the West of England, Bristol, UK
 Ali Arjmand Zavoshti, Department of Management, University of Tabriz, Tabriz, Iran

ID 1001 Technology Application in Logistic and Supply Chain Management

Jey Ganesh Sellappah and Habibah @ Norehan Haron, Universiti Teknologi Malaysia
 Sohaib Z Khan, Islamic University of Madinah, Saudi Arabia

ID 1006 Determination distribution center location of the carton box product using the Center of Gravity, Analytical Hierarchy Process and Transportation method

Beni Rusdianto, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
 Zulfa Fitri Ikatrinasari, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 866 Circular Economy Adoption in the Upstream Agri-food Supply Chain: Understanding the Implications of the Two Theoretical Lenses

Niken Kusumowardani, and Benny Tjahjono, Centre for Business in Society, Coventry University, United Kingdom
 Cindy Rianti Priadi, Environmental Engineering Study Program, Civil Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 887 Green Retailing Strategy Matrix (GRSM): A Tool-Based Approach in Implementing Green Retailing Strategies in the Philippines

Erika Kristina H. Marasigan, Rosemarie Criselle D. Pugay, and Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Manila, Philippines

ID 935 A Framework for the Operationalisation of Build-to-Rent Housing in Johannesburg, South Africa

Kushinga Kambarami, Department of Urban and Regional Planning, University of Johannesburg, Johannesburg, South Africa
 Trynos Gumbo, University of Johannesburg, Department of Town and Regional planning, Johannesburg, South Africa

ID 970 A Conceptual Framework for Adopting Ambidexterity in Circular Supply Chains

Tanja Nathan, Benny Tjahjono, Jason Begley and Jordon Lazell, Centre for Business in Society, Coventry University, Coventry CV1 5FB, UK

3:00 – 4:45 pm, TUESDAY**Operations Management****Room 5**

Session Chair: La Ode Amijaya Kamalussin, STIE Nobel Indonesia, Makassar, Indonesia

ID 1018 Analysis of the Implementation of Regional Regulations Concerning Building Licenses

Zaini Munawir, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

ID 1019 Juridical Overview of Existence Community Customary Forests

Mustamam, Faculty of Law, Universitas Islam Sumatera Utara, North Sumatera, Indonesia

ID 1048 Swimming Exercise Model Policy Using Straps as Aid for Beginners

Meirizal Usra and Andries Lionardo, University of Sriwijaya, Palembang, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia
 Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
 Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia

ID 1047 The Capability and Electability of Local Government in Improving Administration Development

Ivana, STISIPOL Candradimuka, Palembang, Indonesia
 Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
 Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
 Andries Lionardo, University of Sriwijaya, Palembang, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1052 Innovation in the Utilization of Digital-Based Social Media in Readiness to Organize Concurrent Regional Head Elections in the Covid 19 Pandemic Era

Andries Lionardo, University of Sriwijaya, Palembang, Indonesia

Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
 Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
 Derriansya Putra Jaya, University of Sriwijaya, Palembang, Indonesia
 M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1057 Small Business Problems in the Era of the COVID-19 Pandemic

La Ode Amijaya Kamalussin, STIE Nobel Indonesia, Makassar, Indonesia
 A. Hartawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia
 Rahman, Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia
 Buhaerah, Institut Agama Islam Negeri Parepare, Indonesia
 Rinto Hasiholan Hutapea, Institut Agama Kristen Negeri Palangka Raya, Indonesia
 Saidna Zulfiqar Bin-Tahir, Universitas Iqra Buru, Maluku, Indonesia

March 9, 2021 (Tuesday) - Session: 5:00 – 6:45 pm

5:00 – 6:45, TUESDAY

Global Engineering Education IV

Room 1

Session Chair: Dr. Sara Elzarka, Arab Academy for Science, Technology & Maritime Transport, Alexandria Egypt

5:00 pm, Tuesday

Dr. Sara Elzarka

Dean
 International Transport & Logistics Institute
 Arab Academy for Science, Technology & Maritime Transport
 Alexandria Egypt

5:20 pm, Tuesday

Dr. Deepak L. Waikar

Managing Partner, EduEnergy, Singapore
 Chair, The IEEE Education Society Chapter, Singapore

ID 1300 Be an Edutainer to Mesmerise the Learners

5:40 pm, Tuesday

Dr. Nguyễn Văn Hợp

Dean, School of Industrial engineering and management
 International University - Vietnam National University of HCMC
 Ho Chi Minh City, Vietnam

6:00 pm, Tuesday

Assoc. Prof. Korakan PASOMSOUK

Head, Department of Mechanical Engineering
 Faculty of Engineering
 National University of Laos
 Sokpaluang Campus
 Laos

6:20 pm, Tuesday

Dr. V Vasu

Associate Professor
 Dept. of Mechanical Engineering
 National Institute of Technology (NIT)
 Warangal, India

Learning through community service -based projects

5:00 – 6:45 pm, TUESDAY

Supply Chain

Room 2

Session Chair: Nadhilah Hidayah Suryanto, Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

ID 422 Location Optimization Charging Station of Three-Wheel Electric Vehicle: A Case Study

Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Ananda Vania Arisa Putri, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Diponegoro, Jl. Prof.
 Soedarto, SH Tembalang, Semarang, Indonesia
 Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 084 Matching Strategies for Balancing Shipper and Platform Performance in Online Spot Market

Lala Ayu Kantari, I Nyoman Pujawan, and Niniet Indah Arvitrida, Departement of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 087 Modeling an Efficient Cold Chain for Ice Cream Manufacturing in Papua New Guinea

Benedict C. Tarala, School of Graduate Studies, Mapua University, Intramuros, Manila, Philippines

Josephine D. German, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 517 Moderating Effect of Government Regulation on Supply Chain Collaboration and Firm Performance

Engkos Achmad Kuncoro, Darjat Sudrajat, Hardijanto Saroso and Dicky Hida Syahchari, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Dennis Moeke, HAN University of Applied Sciences, Netherlands

ID 420 Optimization of Location Selection for Electric Motorcycle Charging Station: Distance-based Method Approach

Rheza Aulia Ramadhan, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia

Era Febriana Aqidawati, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 147 Supplier Selection of Apparel Small-Medium Enterprises in Indonesia

Nadhilah Hidayah Suryanto, Rahmat Nurcahyo and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

5:00 – 6:45 pm, TUESDAY**Industry 4.0****Room 3**

Session Chair: Imane Benkhati, Search Results Web result with site links Faculté des Sciences Semlalia Marrakech Casablanca, Grand Casablanca, Morocco

ID 520 A Novel On-line Surface Roughness measuring method

M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 430 A Novel On-line Surface Roughness measuring method

M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 149 The use of technology for the industrial revolution

Kyle Chadman, Hyderabad, Telangana, India

ID 413 A Model for Determining a Location of Information Center for Small Medium Enterprises the Smart City Framework: A Case Study

Agus Shumas Setyo, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

Wahyudi Sutopo, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

Eko Pujianto, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

ID 257 Digitalization in Industrial Logistics: Contemporary Evidence and Future Directions

Manuel Woschank, Alexander Kaiblinger, and Philipp Miklautsch, Chair of Industrial Logistics, Montanuniversitaet Leoben, Erzherzog Johann-Strasse 3/1, 8700 Leoben, Austria

ID 007 Smart sustainable manufacturing: From Literature review to a green framework

Imane Benkhati, Search Results Web result with site links Faculté des Sciences Semlalia Marrakech Casablanca, Grand Casablanca, Morocco

5:00 – 6:45pm, TUESDAY**Automation and Control****Room 4**

Session Chair: Semanga Mabuza, Quality and Operations Management Dept., Faculty of Engineering and Built Environment, University of Johannesburg, South Africa

ID 508 Autonomous Electromagnetic Two-speed Transmission for Electric Vehicle

Ataur Rahman and Nurul Hassan, Department of Mechanical Engineering, Faculty of Engineering, International Islamic University Malaysia, 50728 KL, Malaysia

ID 454 Design and Control of Solar Quadcopter using RF and Arduino

Sheikh Junaid Yawar, Uzair Ahmed Usmani, Mohsin Ali, Muhammad Mahad and Syed Ali, Department of Electrical Engineering, Sir Syed University of Engineering and Technology, Karachi, Pakistan

Fida Hussain, School of Information and Engineering, Jiangsu University, Zhenjiang, China

ID 180 Design and Implementation of Addressable Fire Detection and Alarm System in Ready-made Garments Sector of Bangladesh

Alak Barua, Department of Electrical and Electronics Engineering, American International University-Bangladesh, Dhaka, Bangladesh

Nowsheen Sharmili, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

ID 076 Modeling and Fuzzy Control of a PWM Converter Feeding DC Machine

Bedoud Khouloud, Merabet Hichem, Bahi Tahar, Alimi Latifa, Drici Djalel and Oudjani Brahim, Research Center in Industrial Technologies (CRTI), P.O. Box 64, Cheraga, Algeria

Bahi Tahar, Automatic Laboratory and Signals (LASA), Badji Mokhtar University, Annaba, Algeria

ID 724 Performance Evaluation of Virtualized Networks to Serve the Smart IoT Applications

Mohamed Abdellateef and Hussein A. Elsayed, Electronics and Communications Engineering Department, Ain Shams University, Cairo, Egypt
 Michael N.A. Ibrahim, Electronics and Communications Engineering Department, Ain Shams University and The British University in Egypt (BUE), Cairo, Egypt

ID 699 Parking System Development Using Vehicle License Plate Identification with IoT Model to Support Industrial Era 4.0

Bangkit Setya Pambudi and Slamet Winardi, Narotama University, Faculty of Computer Science, Jalan AR Hakim 51, Surabaya 60117, Indonesia
 Dadang Supriyatno, Surabaya State University, Department of Civil Engineering, Jl. Lidah Wetan, Surabaya 60213, Indonesia
 Benediktus Anindito and Immah Inayati, 1Narotama University, Faculty of Computer Science, Jalan AR Hakim 51, Surabaya 60117, Indonesia
 Wahyu Mulyo Utomo, Faculty of Electrical and Electronic Engineering, Universiti Tun Hussein Onn Malaysia
 Sri Wiwoho Mudjanarko, Narotama University, Department of Civil Engineering, Jalan AR Hakim 51, Surabaya 60117, Indonesia

5:00 – 6:45 pm, TUESDAY

IEOM-FlexSim Student Simulation Competition

Room 5

Session Chair: David Chan, Advent2 Labs, Singapore

Finalists out of more than 100 teams. Please note that this list is ordered only by team number, not merit.

	Team number	Institution
1.	IEOM_FlexSim_04	Shahjalal University of Science and Technology, Bangladesh
2.	IEOM_FlexSim_30	Singapore Institute of Technology
3.	IEOM_FlexSim_32	Singapore Management University
4.	IEOM_FlexSim_62	La Consolacion University Philippines

March 9, 2021 (Tuesday) - Session: 7:00 – 8:45 pm

7:00 – 8:45 pm, TUESDAY

Global Engineering Education V

Room 1

Session Chair: Dr. Mohd Khairul Anuar bin Mohd Ariffin, Universiti Putra Malaysia

7:00 pm (Tuesday)

Bertha Maya Sopha, Ph.D.

Associate Professor and Former Director of Industrial Engineering
 Universitas Gadjah Mada, Indonesia
 Chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI)

Industrial Engineering Education in Indonesia

7:20 pm (Tuesday)

Hemlal Bhattarai

Dean, Research and Industrial Linkages (DRIL)
 Lecturer: Department of Electrical Engineering
 Royal University of Bhutan
 Jigme Namgyel Engineering College
 Dewathang
 Samdrup Jongkhar
 Bhutan

Perspective on Academic, Research and Linkages in the near future

7:40 pm (Tuesday)

Prof. Ir. Dr. Mohd Khairul Anuar bin Mohd Ariffin

Professor of Manufacturing Engineering
 Universiti Putra Malaysia
 43400 UPM Serdang
 Selangor Darul Ehsan, Malaysia

8:00 pm (Tuesday)

Syafa Lisaholit, M Chairul Basrun Umanailo

Universitas Iqra Buru
Namlea, 97571, Indonesia

ID 1022 The Effect Of Self-Effect On Student Learning Achievement

8:20 pm (Tuesday)

TBA

7:00 – 8:45 pm, TUESDAY

Higher Education

Room 2

Session Chair: Markus Hartono, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 957 Analysis of Digital Marketing Strategies in the era of the COVID-19 Pandemic in Private Higher Education

Alvin Ramadhan, Students on a Management Study Program, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia
Muji Gunarto, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

ID 962 Organizational Culture and Job Motivation Effect to Increase Employee Satisfaction

Adelia Ainayya Salsabila, Mahendra Fakhri, Putu Nina Madiawati, Romat Saragih, and Benny Kurnia, School of Communication and Business
Telkom University, Indonesia

ID 995 A Review of Contributing Factors on Job Satisfaction and Employees' Turnover Literature: Mini-Review Approach

Aprison, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia
Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 996 Characteristics of Physical Environment in Arabic Classroom: A Preliminary Study in Malaysian Public Universities

Che Mohd Zaid, Nurul Ain Chua and Kasyfullah Abd Kadir, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030
Kuala Nerus, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Mohammad Rusdi bin Ab Majid and Aznida binti Aziz, Institut Pendidikan Guru Kampus Dato' Razali Ismail, Kuala Terengganu, Terengganu,
Malaysia
Mohd Ala Uddin Othman, Faculty of Languages and Communication, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 832 Identifying the Level of Perceived Learning Engagement and Motivation in Mandarin: An Application of Mobile-Assisted Language Learning (MALL) Classes

Nurul Ain Chua Binti Abdullah, Azza Jauhar Ahmad Tajuddin, Roswati Abdul Rahid and Mazlina Ahmad, Center for Foundation and Continuing
Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 810 Are Grit, Fairness and Service Organizational Citizenship Behavior New Factors That Influence Employee Retention? An Empirical Study at Indonesian Hotel Industry

Munawaroh, Edi Abdurachman. Mohammad Hamsal, and Yosef Dedy Pradipto, Bina Nusantara University, Binus Business School, Doctor in
Research Management, Indonesia

ID 853 A Study of Corporate Social Responsibility Policy Implemented by Private Companies and Its Impact to Surrounding Community: A Case Study of Indonesian Port Company

A. Tarmizi, Department of Public Administration, Postgraduate Program, Universitas Islam Riau, Pekanbaru, Riau 28284, Indonesia
Latip and Dewi Jannah, Institute of the Malay World and Civilisation, Universiti Kebangsaan Malaysia, UKM Bangi, 46300, Selangor, Malaysia
Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang,
Jawa Tengah 50275, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 925 Kansei Engineering and Self Determination Theory (SDT) for Sustainable Service Design: An Empirical Study on Coworking Space

Markus Hartono, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

7:00 – 8:45 pm, TUESDAY

Technical Session

Room 3

Session Chair: Muhammad Bilal, University of Engineering and Technology Lahore, Pakistan

ID 1010 Managing Supply and Demand on Primary commodities using Mobile-Based Participatory GIS

Faiza Renaldi, Asep Id Hadiana and Agya Java Maulidin, Dept. Of Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1023 The impact of culture and Organization culture in Lean manufacturing initiatives in Lean Manufacturing (LM) companies South Africa.

John Zvidzayi, PhD student, MSc (MSOM), BTech (Mechanical & Production Engineering), University South Africa

ID 1039 Optimal Promotional Effort and Pricing Policies for a Multiple Item Innovation Diffusion Model involving Fuzzy Parameters

Sunita Mehta, Department of Applied Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, 201301, India and Department of Mathematics, Shri Ram College of Commerce, University of Delhi, India

Kuldeep Chaudhary, Department of Applied Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, 201301, India

Shivani Bali, Associate Professor, Lal Bahadur Shastri Institute of Management, Dwarka, New Delhi – 110075, India

ID 1012 Safety Performance of Signalized Intersections in Abu Dhabi, Interview Analysis

Saleh Al-Subari, UTHM, Malaysia

ID 1067 Design and Analysis of Joint Torque Sensor for Safe Human-Robotic Collaboration

Muhammad Bilal and Sajid Iqbal, Department of Mechatronics and Control Engineering, University of Engineering and Technology Lahore, Pakistan

Muhammad Nadeem Akram, Mechanical, Automotive, and Materials Engineering Department, University of Windsor, Windsor, Ontario, Canada

ID 1021 Regional Government Readiness in Dealing with the Eras of Industri 4.0 Revolution in the Industrial Department of Mojokerto City East Java

Ahmad Hasan Afandi, and Dian Wijaya, Department of Social and Political Sciences Majapahit Islamic University, Mojokerto, Indonesia

M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

Busyairi Ahmad, Institut Ilmu Sosial dan Ilmu Politik Yapis Biak, Indonesia

ID 1017 Valuation for High-Risk Coal Mining Project Case Study: PT. Berau Coal Block Parapatan

Feri Indrayana, Executive MBA Student, School of Business and Management Institute of Technology Bandung, Bandung, Indonesia

Yunieta Anny Nainggolan, Lecturer of Business Risk and Finance Interest Group, School of Business and Management Institute of Technology Bandung, Bandung Indonesia

7:00 – 8:45 pm, TUESDAY

Teaching and Learning

Room 4

Session Chair: Denna Meidita Fahroza, Universitas Negeri Semarang, Semarang, Indonesia

ID 673 Are You Gritty People? A Study of Passion and Perseverance in University Students

Sukma Adi Galuh Amawidyati, Fatma Kusuma Mahanani, and Isnaeni Mas'udah, Department of Psychology, Faculty of Education, Universitas Negeri Semarang, Jl. Kampus Timur, Sekaran, Gunungpati, Semarang, Indonesia

ID 675 Student Perspective: Satisfaction of e-learning and effectiveness of learning media in Indonesian Universities

Fakhrudin Fakhrudin, Imam Shofwan, Utsman Utsman, Bagus Kisworo, and Hendra Dedi Kriswanto, Department of Nonformal Education, Faculty of Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 676 recognitional authority in the implementation in the implementation of village governments to strengthen the existency of indigenous people in sumbawa regency and west sumbawa regency (review of law number 6 of 2014 concerning villages)

Ahmad Yamin, Supriyadi, Dianto, Ashari, and Geatiana Dewi, Lecturer Faculty Of Law, Samawa Rea Institute Of Social And Cultural Science, Sumbawa Besar Nusa Tenggara Barat, Road: Olat Maras, Pernek Village, Moyo Hulu District, Sumbawa Regency, Indonesia

ID 679 Whole Language as a Language Learning Approach

M. Riyanton, Mustasyfa Thabib Kariadi, Vera Krisnawati and Nia Ulfa Martha, Universitas Jenderal Soedirman, Indonesia

Umi Ana Setiani, Universitas Peradaban, Indonesia

ID 680 The Influence of Organizational Citizenship Behavior (OCB) and Organizational Commitment Towards Teachers' Performance in Madrasah Aliyah in Bitung

Rivai Bolotio, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia

Ardianto, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia

Nikmala Nemin Kaharuddin, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia

Lukman Arib, Madrasah Aliyah Alkhairaat Bitung, Sulawesi Utara, Indonesia

ID 672 Multimedia-Based Big Book Media to Improve Reading Skills in Elementary School

Sukardi and Denna Meidita Fahroza, Elementary School Teacher Education Department, Faculty of Science Education, Universitas Negeri Semarang, Semarang, Indonesia

7:00 – 8:45 pm, TUESDAY

TQM

Room 5

Session Chair: Pravin P. Tambe, Indian Institute of Management, Tiruchirappalli, Tiruchirappalli, India

ID 1102 Relationship between Total Quality Management and Organizational Performance: A case of Abu Dhabi Agriculture and Food Safety Authority

Abdulla Esam Alhamd and Mohd Yamani Bin Yahya, Department of Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM) Parit Rajah, Batu Pahat, Johor, Malaysia

ID 1103 Effect of the Continuous Improvement, Employee Involvement and Power Distance on Performance of the Abu Dhabi Agriculture and Food Safety Authority

Abdulla Esam Alhamd and Mohd Yamani Bin Yahya, Department of Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM) Parit Rajah, Batu Pahat, Johor, Malaysia

ID 1106 Analysis of the Implementation of Eco-Airport Concept in Soekarno-Hatta Airport using the WillingnessTo-Pay Method

Alvin Lie Ling Piao, Student in Doctoral Program of Environmental Science, School of Postgraduate, Universitas Diponegoro, Semarang, Indonesia
 Purwanto and Hartuti Purnaweni, Lecturers in Doctoral Program of Environmental Science, School of Postgraduate, Universitas Diponegoro, Semarang, Indonesia

ID 1107 Innovative Ideas Generation in Developing Countries: A Case of Pakistani SMEs

Fazli Wadood, Department of Management Sciences University of Buner KP, Pakistan
 Mohammed Emad Alshaikh, Department of Management Information Systems (MIS), Imam Abdulrahman Bin Faisal University (IAU) Dammam, Saudi Arabia
 Abdul Talib Bin Bon and Fazal Akbar, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia, 86400, Johor. Malaysia
 Maqsood Mahmud, Department of Management Information Systems (MIS), Imam Abdulrahman Bin Faisal University (IAU) Dammam, Saudi Arabia

ID 1118 Risk Mitigation Strategy in Perishable Product Supply Chains

Agus Mansur, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Yogyakarta, Indonesia
 Mellya Zaizafuun Arasti, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Yogyakarta, Indonesia

ID 1149 Evaluation of factors affecting air cargo terminal operation performance during COVID-19

Tipavinee Suwanwong Rodbundith, Business Excellence and Logistics Research Centre, School of Management, Mae Fah Luang University, Chiang Rai, Thailand
 Apichat Sopadang, Excellence Center in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai, Thailand

ID 235 Integration of Internet of Things for Digitalization of Business-to-Business Industries – A Review

Nachiket Sanjay, Student at the Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli, Tiruchirappalli, Tamil Nadu, 620015, India
 Pravin P. Tambe, Faculty of Operations Management and Decision Science, Indian Institute of Management, Tiruchirappalli, Pudukottai Main Road, Chinna Sooriyur Village, Tiruchirappalli – 620024, India

March 9, 2021 (Tuesday) - Session: 9:00 – 10:30 pm

9:00 – 10:30 pm, TUESDAY

Global Engineering Education VI

Room 1

Global Engineering Education Panel

Panel Chair

Professor Donald M. Reimer

Director of Membership and Chapter Development – IEOM Society
 President, The Small Business Strategy Group, Detroit, Michigan, USA
 Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
 Lawrence Technological University, Southfield, Michigan, USA

Panel Speakers

Dr. Manuel Woschank Senior Lecturer, Senior Researcher and Chair of Industrial Logistics Montanuniversitaet Leoben, Austria Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia	Dr. Nidhi M B Associate Professor at Mechanical Engineering Dept. Mar Baselios College of Engineering and Technology Nalanchira, Trivandrum, Kerala, India Professor Don Reimer
Dr. Erwin Rauch Assistant Professor in Manufacturing Technology and Systems Head of the Smart Mini Factory laboratory for Industry 4.0 application Free University of Bolzano, Italy	

March 10, 2021 (Wednesday) - Session: 8:00 – 9:45 am

8:00 – 9:20 am, WEDNESDAY

Industry 4.0 / Industry Solutions I

Room 1

Session Chair: Paul W Bradley, Caprica International, Singapore

8:00 – 8:20 (Wednesday) – Room 1

Richard J. Sherman

Senior Fellow, Supply Chain Centre of Excellence

Tata Consultancy Services (TCS)
Austin, Texas, United States

8:20 – 8:40 (Wednesday) – Room 1

Ts. Dr. Fairul Anwar Abu Bakar

Head of Postgraduate Studies
Senior Lecturer
Quality Engineering Section
Universiti Kuala Lumpur
Malaysian Institute of Industrial Technology (MITEC)

8:40 – 9:00 (Wednesday) – Room 1

Kar Heng LEE

TBSS Center for Electrical and Electronics Engineering, Singapore
Cong Ty TNHH Cong Nghe va Giam Sat Radar TBSS, Vietnam

Being an Engineerpreneur in Vietnam as a Singaporean

9:00 – 9:20 (Wednesday) – Room 1

Paul W Bradley

Chairman and CEO
Caprica International
Singapore

8:00 – 9:45 am, WEDNESDAY Sustainability in Supply Chain, Enterprise Operations and Strategies Room 2

Session Chair: Hussein Al-Yafei, Qatar University, Doha, Qatar

ID 001 Circular Economy: Exploratory Study of Steel Industry in Thailand

Vichathorn Piyathanavong, School of Manufacturing Systems and Mechanical Engineering (MSME), Sirindhorn International Institute of Technology (SIIT), Thammasat University, 99 Moo 18, Paholyothin, Khlong Luang, Pathum Thani 12120, Thailand
School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan, 1-1 Asahidai, Nomi, Ishikawa, 923-1292, Japan
Jose Arturo Garza-Reyes, Centre for Supply Chain Improvement, The University of Derby, Kedleston Road Campus, Derby, DE22 1GB, UK
Van-Nam Huynh, School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan, Asahidai, Nomi, Ishikawa, Japan
Sun Olapiriyakul, School of Manufacturing Systems and Mechanical Engineering (MSME), Sirindhorn International Institute of Technology (SIIT), Thammasat University, 99 Moo 18, Paholyothin, Khlong Luang, Pathum Thani 12120, Thailand
Jessada Karnjana, National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA), 111 Thailand Science Park (TSP), Phahonyothin, Khlong Luang, Pathum Thani 12120, Thailand

ID 300 Green Supplier Selection Using Fuzzy Approach of AHP and VIKOR – A Case Study in an Indonesian Pharmaceutical Company

Brigitta Adinda Sarasati, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 106 Identification of Challenges and Benefits of Product Certification on Small and Medium Enterprises (SMEs) in Indonesia

Andri Gandhi, Rahmat Nurcahyo, and Djoko Sihono Gabriel, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, 16424, Indonesia

ID 104 Internal and external factors of improving television e-waste management through the supply chain infrastructure in Jakarta-Indonesia

Jerry Kuswara Piton, Rahmat Nurcahyo, and Farizal, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 128 Measuring Sustainability Performance of Logistics Service Providers using AHP

A. Wijayanayake, A.P.K.J. Prabodhika, and D.H.H. Niwunhella, Department of Industrial Management, University of Kelaniya, Dalugama, Sri Lanka

ID 042 Integrated Sustainability Assessment of Sharing Economy Models: The Case for Qatar

Hussein Al-Yafei, Saleh Aseel, Murat Kucukvar, Arwa Al-Karbi, Ahmed Al-Sulaiti, Abdulla Al-Hajri, and Abdulrahman Al-Siddigi, College of Engineering, Qatar University, Doha, Qatar

ID 144 Strategic Development for A Filter Automotive Component Company in Facing The Electric Vehicles Era in Indonesia

Hikari Qurrata'ain Nurhadi, Rahmat Nurcahyo, and Djoko Sihono Gabriel, Industrial Engineering Dept., Universitas Indonesia, Depok, Indonesia

ID 515 The main obstrumptions that firms encounter in their work towards a green supply chain

Matilda Börlin, Rebecka Jarlén, Lisa Olsson, and Shahryar Sorooshian, University of Gothenburg, Sweden

8:00 – 9:45 am, WEDNESDAY

Design and Analysis

Room 3

Session Chair: Giampiero Donnici, Alma Mater Studiorum University of Bologna Viale Risorgimento, Bologna, Italy

ID 473 Additive Manufacturing of Titanium Alloys

M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 270 Futuristic Transportation System developed with QFD

Eleonora Sonnati, Alessandro Cerullo, Elisa Ghirlandi, Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, and Gian Maria Santi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 329 Influence of Geographic Information System on Natural Disaster Management in the United Arab Emirate

Saif Ali Alblooshi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor, Malaysia

Mohd Yamani Bin Yahya, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 266 Innovative Disassembly Sequence Applied to a Virtual Mechanical Reducer

Gian Maria Santi, Leonardo Frizziero, Alfredo Liverani, Martina Tinuper, and Giampiero Donnici, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 273 QFD and SDE applied to the design of a new non-electric folding bike

Francesca Baldrati, Loyal Chaks, Elisa Dallacasa, and Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Architecture, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 254 Stylistic Design Engineering (SDE) to Conceptualize a Futuristic Sports Car

Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Cristiano Cacialli, Chiara Tuppi and Davide Maneggia, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 252 Stylistic Design Engineering (SDE) to Conceptualize a New Seven-Seater Car

Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Erica Bugli Giuditta Contini and Daniela Harsan, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 318 Stylistic Design Engineering (SDE) to realize a new concept of classic car

Giampiero Donnici, Leonardo Frizziero, Alfredo Liverani, and Gian Maria Santi, DIN, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, viale Risorgimento 2, 40136 Bologna, Italy
Greta Benni, Alma Mater Studiorum University of Bologna, viale Risorgimento 2, 40136 Bologna, Italy

ID 623 Futuristic Transportation System developed with QFD

Eleonora Sonnati, Alessandro Cerullo and Elisa Ghirlandi, Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Department of Industrial Engineering Alma Mater Studiorum University of Bologna Viale Risorgimento, 2 – 40136, Bologna, Italy

8:00 – 9:45 am, WEDNESDAY**Supply Chain Management****Room 4**

Session Chair: Narath Bhusiri, HELP Logistics Asia, Singapore 247671, Singapore

ID 027 Conceptual Framework of Performance Improvement in Coffee Production Using Integrated Lean Technique

Yotsaphat Kittichotsatsawat, Ph.D.'s Program in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai 50200, Thailand
Korrakot Yaibuathet Tippayawong, Department of Industrial Engineering & Excellence Center in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai 50200, Thailand

ID 113 A Lean Approach for Reducing Inventory for a Mexican Convenience Store Network

Mariana Villarreal, Mireya Elizondo, Vanessa Ocañas and Bernardo Villarreal, Department of Industrial Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. Mexico

ID 010 A Multi-Objective Optimization Model for an Algal Biofuel Supply Chain Integrating Resource Recirculation

Celine Marie A. Solis, Jayne Lois G. San Juan, and Dennis E. Cruz, Industrial Engineering Department, De La Salle University, 2401 Taft Avenue, Manila, Philippines

ID 047 A Sequential Heuristic for Production-Inventory Planning and Supplier Selection based on Quantity Discounts in a Component Remanufacturing Environment

M. Agnel Xavier Fernando and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bengaluru, India

ID 130 Analysis of Supply Chain Complexity Sub-Dimensions for Automobile Industry

Niyanta Mehra, Aakriti Khurania, Kshitij Rastogi and S.K. Garg, Department of Mechanical Engineering, Delhi Technological University, Delhi 110042, India

ID 880 Assessment on Delivery Performance of Trading Companies in the Supply Chain of Philippine Power Generation Industry

Jorel T. Hizole, Patricia Camille A. Ocampo, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 897 Developing Performance Measurement Tool for Slow-Onset Humanitarian Supply Chain Operation

Narath Bhusiri, HELP Logistics Asia, Singapore 247671, Singapore
Huay Ling Tay, School of Business, Singapore University of Social Sciences, Singapore

8:00 – 9:45 am, WEDNESDAY**Case Studies****Room 5**

Session Chair: Grace Lorraine D. Intal, School of Information Technology, Mapua University, Makati City, Philippines

ID 1122 Assessments of Student Vulnerability on the Download of Malware Disguised as Cracked Software

Eric B. Blancaflor, Angelo Luis Gonzales, Christer John Esguerra, Bryelle Nisperos, Dan Christopher Fandiño and Luis Angelo Pono, School of Information Technology, Mapua University, Makati City, Philippines

ID 1134 Model of Determination of Industrial Center Locations for Small and Medium Enterprises Framework for Smart Cities: Case Study

Agus Shumas Setyo, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia
Wahyudi Sutopo, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Eko Pujiyanto, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

ID 1154 Application of Computer Assisted System in Manufacturing Units of Communication Devices

Sonasale Priti, Research Scholar, I & PE Dept, P D A College of engineering, Kalaburagi, India
Hebbal S.S, Principal, P D A College of Engineering, Kalaburagi, India
Qutubuddin S.M., Associate Professor, I & PE Dept, P D A College of Engineering, Kalaburagi, India

ID 1147 The Teaching of EFL Vocabulary through Anticipatory Learning Strategy in Islamic Higher Education Context in Indonesia

Abdul Gafur Marzuki, Santiana, Ana Kuliahana, Alek, Nurul Fadhilah, Besse Darmawati, Saidna Zulfiqar Bin-Tahir
English Education Department, Palu State Institute for Islamic Studies (IAIN Palu), Diponegoro Street 94221, Palu city, Central Sulawesi, Indonesia

ID 1148 Smartphone-Assisted Language Learning: A Breakthrough for English Learning Autonomy

Santiana, Fera Sulastri, Asri Siti Fatimah, Abdul Gafur Marzuki, Saidna Zulfiqar Bin-Tahir, and Andi Asrifan, English Education Department, Siliwangi University, West Java, Indonesia

ID 1135 Design of Cashless Payment System with RFID to Improve Services of School Canteen: A Case Study

Roland Jay-Ar R. Espinosa, Aiden Lemuel T. Lumibao, Chloe Ysabel P. Zerrudo, and Grace Lorraine D. Intal, School of Information Technology Mapua University, Manila Philippines

March 10, 2021 (Wednesday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:30 – 9:40 am, March 10, Wednesday – **Conference Chair Remarks**

9:40 – 10:20 am, March 10, Wednesday - **Keynote VII**

Dr. Victoria Jordan

Vice President – Quality
Emory Healthcare, Atlanta, Georgia, USA

10:20 – 11:00 am, March 10, Wednesday - **Keynote VIII**

Koh Niak Wu

CEO and CTO
Cosmigo International, Singapore

11:00 am – 11:40 am, March 10, Wednesday - **Keynote IX**

Dr. Ir. Wahyudi Sutopo

Professor, Dept. of Industrial Engineering and Vice Dean
Universitas Sebelas Maret, Surakarta, Indonesia

11:40 am – 12:20 pm, March 10, Wednesday – **Keynote X**

Prof. Ruth Banomyong

Dean, Thammasat Business School
Thammasat University, Thailand

12:20 – 1:00 pm, March 10, Wednesday - **Keynote XI**

Dr. Alessandro ROMAGNOLI

Associate Professor, School of Mechanical and Aerospace Engineering
Nanyang Technological University, Singapore

March 10, 2021 (Wednesday) - Session: 1:00 – 2:45 pm

1:00 – 2:45, WEDNESDAY

Industry 4.0 / Industry Solutions II

Room 1

Session Chair: Dr. Murphy Choy, SSON Analytics, Singapore

1:00 – 1:20 (Wednesday) – Room 1

Ashwini Sharma

Lean Six Sigma Master Black Belt and Scrum Master
Continuous Improvement Coach
Shell
Singapore

1:20 – 1:40 (Wednesday) – Room 1

Hirishegan Karuneswaran

Co-founder/ CEO
The verify network (Pvt) Ltd.
Sri Lanka

1:40 – 2:00 (Wednesday) – Room 1

Dr. Murphy Choy

Director of Operations and Technology
SSON Analytics
Singapore
Certified Advanced Programmer for SAS V9
Certified Basic Programmer for SAS V9
DataShaping Certified SAS Professional

2:00 – 2:20 (Wednesday) – Room 1

Mark Tan

Assistant Director
Lean Transformation and Innovation Center (LTIC)
Singapore Institute of Technology
Singapore

Title of Presentation: Challenges of leading Lean transformation in SMEs (small medium enterprises)

2:20 – 2:40 (Wednesday) – Room 1

Tan Mei Fang (Ms)

B.Eng (NUS, Singapore), MBB (MA, USA), PMP (USA), PROSCI (USA), Member of ISSSP (USA)
Six Sigma Master Black Belt
Lecturer, Lean Consultant and Coach
Singapore

1:00 – 2:45, WEDNESDAY

Maintenance and Reliability

Room 2

Session Chair: M.B. Kiran, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 137 Maintenance Management Performance Measures in Indonesia Calibration Laboratories Applying ISO/IEC 17025: 2017

Nur Aeni, Cindy Malinda Uscha, Sri Purwati & Nurhadi Wibowo, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 138 Maintenance Practices in Indonesian Wood and Furniture SMEs: Survey Results

Fathia Nisa, Ghina Haura Tsamarah, Nadia Farah Afief and Zarahmaida Taurina, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 220 Mapping of Maintenance Management Implementation on Automotive Manufacturing in Indonesia

Dika Fajar, M. Agmarnosa, Prawira A.P, and Rendy R. K., Industrial Engineering Department, Engineering Faculty, Universitas Indonesia, Depok, West Java, Indonesia

ID 231 Measuring the Performance of Office Buildings Maintenance Management in Indonesia

S. Maulana B., Afriandi G., TB. Muhammad K.H., and Daniel F., Industrial Engineering Department, Universitas Indonesia, Salemba, DKI-Jakarta, Indonesia

ID 380 Reliability Centered Maintenance of Circular Loom

M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 541 Reliability Centered Maintenance of Circular Loom

M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 057 Reliability of a Polyethylene Pipe based on the PENT Model

Latifa Alimi, Kamel Chaoui, and Khoulood Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria
 Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, Annaba, Algeria,
 Kamel Chaoui, Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, PO Box 12, Annaba 23000, Algeria
 Khoulood Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria

1:00 – 2:45, WEDNESDAY**Data Analytics****Room 3**

Session Chair: Maryam Sangadji, Universitas Pattimura, Ambon, Indonesia

ID 250 A Review of Machine Learning Methods Applicable to Quality Issues

Cyrus Hoseini, M. Affan Badar, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, Indiana 47809, USA
 Christopher J. Kluse, Department of Engineering Technology, Bowling Green State University, Bowling Green, Ohio 43403, USA

ID 146 Analytics of Response for Corporate Twitter Accounts Using Text Mining: Case of Japanese Automotive Manufacturers

Yuta Kitano, Management Science and Social Informatics Program, Department of Informatics, The University of Electro-Communications 1-5-1, Chofugaoka, Chofu-city, Tokyo, Japan
 Tetsuo Yamada, Management Science and Social Informatics Program, Department of Informatics, The University of Electro-Communications 1-5-1, Chofugaoka, Chofu-city, Tokyo, Japan
 Kim Hua Tan, Operations Management and Information Systems, Business School, University of Nottingham, Nottingham, United Kingdom

Big Data Volume, Variety, Velocity: A Literature Review

Frida Thomsen, Nermin Brkovic, Victor Berndtsson, and Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, Sweden

ID 762 Generating maximum prime patterns using Benders decomposition and Apriori algorithm

Hany Osman, Systems Engineering Department, King Fahd University of Petroleum & Minerals, KFUPM, Dhahran, 31261, Kingdom of Saudi Arabia

ID 412 Configurable Framework for Smart Serious Game Analytics

Linda William, Nur Aisha Khalid, Simon Chan, Muhammad Rizal Ismail, Nelson Chang, Ruan Yang, Elroy Chua, and Zulfami Ashrafi, School of Informatics & IT, Temasek Polytechnic, 21 Tampines Ave 1, Singapore

ID 369 Exploring the Sentiment and Online Review of Multilevel Marketing (MLM) Company Products

Halimaton Saadiah Rusli, School of Computer Sciences, Universiti Sains Malaysia, Malaysia
 Noor Farizah Ibrahim, School of Computer Sciences, Universiti Sains Malaysia, Malaysia

ID 818 Types of Covid-19 Hoax in Social Media Indonesia

Maryam Sangadji, Universitas Pattimura, Ambon, Indonesia
 A Yusdianti Tenriawali, M Chairul Basrun Umanailo, Ivana Goa, Universitas Iqra Buru, Maluku, Indonesia
 Muslimah, Fakultas Tarbiyah Institut Agama Islam Negeri Palangka Raya, Indonesia
 Aulia Nursyifa, Universitas Pamulang, Indonesia

1:00 – 2:45, WEDNESDAY**Engineering Management****Room 4**

Session Chair: Abdalla Alrashdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 033 Analysis and operational planning for a kitchen equipment company facing new market needs as a consequence of the COVID-19 pandemic

Carlos M. Linares, and Jorge A. Peinado, Department of Engineering Management, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
 Ricardo Ramirez, Department of Industrial and Systems Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
 Fernando González-Aleu, Department Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
 Jesús Vázquez, Innovation and Strategic Intelligence, Advanced Value Chain Institute, San Pedro Garza Garcia, N.L. México

ID 462 Analysis of Workplace Turnover Intentions in Manufacturing Industries of Laguna, Philippines

Richard Drix A. Piatos, Rex Aurelius C. Robielos and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management,

Mapua University, Intramuros, Manila, Philippines

ID 371 MABENA Strategic Management Model for Local Companies (case study: an Iranian company)

Kaveh Mohammad Cyrus, Assistant Professor, Faculty of Industrial Engineering and Management Systems, Amirkabir University of Technology (Tehran Polytechnic), Iran

Hossein Bahramipour, Master Student of Industrial Engineering, Amirkabir University of Technology (Tehran Polytechnic), Iran

ID 088 Perception of Hotel Customers Based on Nationality: A Comparative Analysis of Reviews and Ratings

Adrian A. Amador, School of Graduate Studies, Mapua University, Muralla St., Intramuros, Manila, Philippines

Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St, Intramuros, Manila, Philippines

ID 298 Study of Factors Influencing Room Ambient Temperature Using Design of Experiments

Malek Almobarok and Kepa Mendibil, Design, Manufacturing & Engineering Management Department, University of Strathclyde, Glasgow, UK

Abdallah Alrshdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 323 Using Smart Phones to Assessment Road Roughness in the UAE

Saif ALQaydi, Department of Industrial Engineering Management, University of Sharjah, Sharjah, UAE

Waleed Zeiada, Department of Civil and Environmental Engineering, University of Sharjah, Sharjah, UAE

Daniel Llor, Department of Federal Roads, Ministry of Energy and Infrastructure, Dubai, UAE

Ahmed Elwakil, Department of Electrical Engineering, University of Sharjah, Sharjah, UAE

ID 720 Churn Prediction for Gym Members Using Artificial Neural Networks Assisted with the Psychological Concept of Habit Formation in The Fitness Industry

May Aldosary, and Abdalla Alrashdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

1:00 – 2:45, WEDNESDAY

Technical Session

Room 5

Session Chair: Khawar Hussain, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia, 86400, Johor, Malaysia

ID 1123 A Knowledge-Based System for ergonomic application in Indian Manufacturing Industries (KBSEAM)

Sonasaale Priti, Research Scholar, I & PE Dept, P D A College of engineering, Kalaburagi, India

Hebbal S.S, Principal, P D A College of Engineering, Kalaburagi, Kalaburagi, India

Qutubuddin S.M, Associate Professor, I & PE Dept, P D A College of Engineering, Kalaburagi, India

ID 1124 Eco-Efficiency Performance of Airlines in Eastern Asia: A Principal Component Analysis Based Sustainability Assessment

Eman R. Elhמוד, Adeeb A. Kutty, Galal M. Abdalla, and Murat Kucukvar, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

Muhammet Enis Bulak, Industrial Engineering, Faculty of Engineering and Natural Sciences, Uskudar University, Istanbul, Turkey

Jalal M. Elkhazaz, Authority of Natural Science Research, Tripoli, Libya

ID 1126 Usage Satisfaction of Clarin Hayes Health Youtube Channel Toward Healthy Lifestyle

Rehia Karenina Isabella Barus, Nadra Idayani Vita, Nina Siti Salmaniah Siregar, Ester Elisabeth Sinaga and Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Waridah Pulungan, Government Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, Indonesia

ID 1143 Global Retirement and Pensions System Development

Hazimi Foziah, Puspa Liza Ghazali and Azman Alias, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengganu, Malaysia

Sukono, Universitas Padjadjaran, Bandung. West Java. Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1243 Can organic Products be sustainable in present business environment?

Aftab Alam, School of Management, GD Goenka University Gurgaon-Haryana, India

Syed Mohd Jamal Mahmood, School of Management, GDGU, Gurugram, India

ID 1269 Applications of Waste Relations Matrix (WRM) in Lean Wastes Identification

Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

Awaiz Khatri, Associate Professor, Department of Textile Engineering, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

Hussain Bux Marri, Meritorious Professor & Ex-Chairman, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

ID 1131 Reviewing the Link between Employee Creativity, Innovative Behavior and Organizational Innovation

Khawar Hussain and Eta Wahab, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia, 86400, Johor, Malaysia

March 10, 2021 (Wednesday) - Session: 3:00 – 4:45 pm

3:00 – 4:45, WEDNESDAY

Industry 4.0 / Industry Solutions III

Room 1

Session Chair: Dr. Ramly Edly, CFR Certification Malaysia

3:00 – 3:20 (Wednesday) – Room 1

Dr. Edly Ferdin Ramly

Certification Director
EFR Certification
Johor Bahru, Malaysia

3:20 – 3:40 (Wednesday) – Room 1

Mr. Mohd Zaki Tumijan

Trainer / Consultant / Auditor

3:40 – 4:00 (Wednesday) – Room 1

Dr. Kamarizan Kidam

Lecturer
UTM Skudai, Johor Bahru, Malaysia

4:00 – 4:20 (Wednesday) – Room 1

Mr. Hood Atan

Exergy Management Consultant
IATF Auditor for Afnor Certification, France

4:20 – 4:40 pm (Wednesday)

Prasanna Balasubramanian

Program Management
Largest Bigdata Consulting Organization in ASIA
Singapore

4:40 – 5:00 (Wednesday)

Kamil Mizgier

Group Manager
Model Development in the area of Enterprise Risk Analytics
BNY Mellon Poland
Zürich, Switzerland

The Journey to Economic Supply Chain Risk Capital

3:00 – 4:45, WEDNESDAY

Entrepreneurship / Innovation

Room 2

Session Chair: Shahriar Tanvir Alam, Military Institute of Science and Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh

ID 408 A Framework Model of Efficiency Measurement in Technology Commercialization for Technology Transfer Office (TTO) using Data Envelopment Analysis (DEA): A Case Study

Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology and Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Rina Wiji Astuti, Teaching Factory of LFP Battery Universitas Sebelas Maret, Chief Executive Officer of PT. Batex Energi Mandiri, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 532 Agricultural Price Prediction Models: A Systematic Literature Review

FD Wihartiko, Departement of Computer Science, IPB University, Indonesia and Departement of Computer Science, Universitas Pakuan, Indonesia

S Nurdianti, Departement of Mathematics, IPB University, Indonesia

A Buono, Departement of Computer Science, IPB University, Indonesia

E Santosa, Departement of Agronomy and Horticulture, IPB University, Indonesia

ID 259 Cases Analysis on Business Model Innovation between Tangible and Intangible Products

CHEN Si, Graduate School of Business and Finance, Waseda University, Tokyo, 1698050, Japan and Faculty of Education Sciences, East China Normal University, Shanghai, 200062, China

NAGASAWA Shin'ya, Graduate School of Business and Finance, Waseda University, Tokyo, 1698050 Japan

ID 005 Current Practices on Government Innovation towards Human Capital Development for achieving UAE Vision 2021

Zayed Hussain Salih Alhemaury, Wan Fauziah Wan Yusoff, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

ID 534 Design of Business Unit Strategy with a Performance Measuring Approach (Study Case: PT XYZ)

Riana Magdalena Silitonga and S. Si., Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan, Taiwan
 Andri Cakramihardja, Department of Industrial Engineering, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia

ID 533 Designing an Android-Based Burn Rate Pattern Detection Application Model

Harrizki Arie Pradana, Melati Suci Mayasari, Anisah and Yuyi Andrika
 Informatics Engineering Department, Atma Luhur Institute of Science and Business, Pangkalpinang, Indonesia
 Information System Department, Atma Luhur Institute of Science and Business, Pangkalpinang, Indonesia

ID 372 High-end Disruptive Innovation as Exemplified by BALMUDA Case

NAGASAWA Shin'ya, Graduate School of Business and Finance, Waseda University, Tokyo, 1698050, Japan
 BANDO Yuji, Graduate School of Business and Finance, Waseda University, Tokyo, 1698050, Japan

ID 268 Development and Analysis of a Customer-Based Product

Shahriar Tanvir Alam, Lecturer, Department of Industrial and Production Engineering, Military Institute of Science and Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh

3:00 – 4:45, WEDNESDAY

Decision Sciences

Room 3

Session Chair: Vivek Soni, BULMIM, New Delhi, India

ID 561 AHP-Based Decision Support System for Elevators Selection

Malek Almobarek, Design, Manufacturing & Engineering Management, University of Strathclyde, Glasgow, UK
 Sobhi Mejjiaoui, Abdelghani Bouras and Abdalla Alrshdan, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

ID 048 Another Empirical Application of the Similarity Confirmation Method in Evaluating the MADM Methods for a Type-selection Decision Case before Bulk Purchase

Zheng-Yun Zhuang, Department of Civil Engineering, National Kaohsiung University of Science and Technology, Sanmin District, Kaohsiung, 807, Taiwan (ROC)
 Shu-Chin Chang, Department of Accounting, Chung Yuan Christian University, Zhongli District, Taoyuan City, 320, Taiwan (ROC)

ID 028 Assessment of the Health Problems and Health Hazards Prevalent among the Garment Workers of Bangladesh – An Approach with Risk Priority Number and Best-Worst Method

Ahmed Shoyeb Raihan, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh
 Farzana Islam, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh

ID 616 Corporate Social Responsibility (CSR) Contribution to Achieve Sustainable Development Goals (SDGs) in Southeast Sulawesi

Faturachman Alputra Sudirman, Ambo Upe, La ode Herman and Fera Tri Susilawaty, Faculty of Social and Political Sciences, Universitas Halu Oleo, Kendari, 93132, Indonesia

ID 054 Robust Least Square Model: Increasing Literacy through Sanitation and Electricity in Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
 John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
 Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia

ID 794 Determinant Factors in Improving Services Quality Strategies at the National Land Agency North Luwu Regency, South Sulawesi, Indonesia

Syahiruddin Syah, Riska Firdaus, Darmawati, and Musyrihah Mahfuddin, Andi Djemma University, Palopo, South Sulawesi, Indonesian

ID 504 Demystifying Projects Network Analysis using Fuzzy Numbers

Vivek Soni, BULMIM, New Delhi, India
 Devinder Kumar Banwet, IIT Delhi, India

3:00 – 4:45, WEDNESDAY

Industrial Management

Room 4

Session Chair: Ira Setyaningsih, Industrial Engineering UIN Sunan Kalijaga Yogyakarta, Indonesia

ID 394 Application Scorecard Logistics Method for Comparative Analysis of Performance Measurement: A Case Study

Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Avia Bilqis Viana, Anida Norma Cahyati, and Sofi Desi Susanti, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Wahyudi Sutopo and Yuniaristanto, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 367 Determinant of Factors affecting Customer Satisfaction: Case of the Logistics Industry in Sri Lanka

S. M. D. T. K. Egodawela, A. N. Wijayanayake, and P.L.S. Peter, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

ID 302 Hotel Revival Strategy Planning with SWOT-Fuzzy AHP-TOPSIS: A Case Study of 4-star Hotel

Almira Zada Nurulita Sahir, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 234 Measuring Maintenance Strategies of Car Wash Business in Indonesia

Hikari Q. Nurhadi, M. Fadhlis Syakur, Nadhilah H. Suryanto and Rinanda Hanindy R., Industrial Engineering Departement, Universitas Indonesia, Depok 16436, Indonesia

ID 141 Metaheuristic for Solving Maritime Inventory Routing Problem: A Literature Review

Antono Adhi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia and Department of Industrial Engineering, Universitas Stikubank, Semarang, Indonesia
 Firda Nur Rizkiani, Budi Santosa, and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 303 Modeling the Barriers and Enablers of Intellectual Property-based Financing Scheme for Developing Economies: An Indonesian Context

Maraya Ghassani Santoso, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 312 Service Quality Improvement Strategy for Container Terminal using SERVQUAL-SWOT-QFD

Ainun Nisalatun Najiyah, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 296 Technological Aspects of Green Manufacturing's Adoption in SMEs: the role of owners

Ira Setyaningsih, Industrial Engineering UIN Sunan Kalijaga Yogyakarta, Indonesia

3:00 – 4:45, WEDNESDAY**Supply Chain and Logistics Competition****Room 5**

Session Chair: Dr. Yap Wei Yim, Singapore University of Social Sciences, Singapore

ID 518 Discovering the Green Manufacturing Practices in Malaysia Small and Medium-Sized Enterprises (SMEs)

Zulkifli Mohamed Udin, Rohafiz Sabar, Hartini Ahmad, and Nur Khairiel Anuar, Universiti Utara Malaysia, Malaysia
 Faruq Muhammad Abu Bakar, Bauchi State University Gadau, Nigeria

ID 492 Production Planning and Capacity Control with Demand Forecasting Using Artificial Neural Network (Case Study PT. Dynaplast) for Industry 4.0

Priskila Abigail Gunawan and Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11440, Indonesia

ID 484 Production Planning and Inventory Control Using Artificial Neural Network Forecasting for Furniture Industry 4.0 Custom Production

Andre Jonathan Christifan and Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11440, Indonesia

ID 1173 Identification of Critical Success Factor for Sustainable Supply Chain Management Drone Logistics in Indonesia with ISM (Interpretive Structural Modeling) Approach

Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
 Muhammad Hisjam and Wahyudi Sutopo, Research Group of Industrial Engineering and Techno-Economics, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 1099 Smart Transaction Picking in Tier-to-tier SBS/RS by Deep Q-Learning

Bartu Arslan, Yasar University, Turkey

March 10, 2021 (Wednesday) - Session: 5:00 – 6:45 pm**5:00 – 6:45 pm, WEDNESDAY****Industry Solutions IV****Room 1****Industry 4.0 Panel**

"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises".

Panel Chair:

Ts. Dr. Mehran Doulat

Associate Professor
 MBA Review Committee/Coordinator
 Xiamen University Malaysia (XMUM)
 Director of Centre for Operational Excellence Research (COER)
 Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Title: Sustainable Supply Chain Management (SSCM) Practices: Insights from Malaysian Non-Manufacturing Industries

Panel Speakers

Dr. Nigel Grigg Professor of Quality Systems Head of Department of Operations and Engineering Innovation (OEI) School of Engineering and Advanced Technology Massey University, Palmerston North, New Zealand Associate Editors of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing	Dr. Matthew Pepper Senior Lecturer School of Management, Operations and Marketing University of Wollongong (UOW), New South Wales, Australia. Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management, and International Journal of Information and Operations Management Education
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Dr. Azmawani Abd Rahman Professor, School of Business and Economics Universiti Putra Malaysia (UPM) President of Research and Education at the Malaysia Franchise Association (MFA) Former Director of Corporate Strategy and Communication Office UPM Former Deputy Director of Research Management Centre UPM	Dr. Mat Naim Abdullah Associate Professor Faculty of Built Environment and Surveying Deputy Director, UTM Centre for Quality and Risk Management Universiti Teknologi Malaysia (UTM)
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5:00 – 6:45 pm, WEDNESDAY**Operations Research****Room 2**

Session Chair: P. U. Ankita, Department of Management Studies, Indian Institute of Science, Bangalore, India

ID 427 A Reactive Scheduler for Closed Loop Control Systems Using Historical Run-time Statistics

Sudhir Shetiya and Siddhartha SenGupta, TCS Research and Innovation, TATA Consultancy Services, Olympus, Hiranandani Estate, Thane West 400607, Maharashtra, India
Supratim Biswas, Department of Computer Science and Engineering, IIT Bombay, Powai, Mumbai 400076, India

ID 416 Adding Relation with Long Communication Length between the Top and a Member of a Linking Pin Organization Structure

Kiyoshi Sawada, Department of Economic Information, University of Marketing and Distribution Sciences, Kobe, Japan

ID 463 Analysis of Airline Domestic Operations using Linear Programming

Ralph Andre C. Roque, Rex Aurelius C. Robielos and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 469 Analysis of Supply Chain in a Liquefied Natural Gas (LNG) Company in the Philippines using Optimization Models

Joshua Grenel L. Armea and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 1251 The Role IMF Prescribed Policies in Supporting Socio Economic Development in Nigeria

Raziqa Muhammad Shafiu and Mohd Afandi Salleh, Faculty of Law and International Relations, Universiti Sultan Zainal Abidin (UniSZA), Terengganu, Malaysia

ID 080 An Efficient Heuristic Method for Dynamic Berth Allocation Problem

P. U. Ankita and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore, India

5:00 – 6:45 pm, WEDNESDAY**Energy****Room 3**

Session Chair: Mohammed Abdulmajid, Effat University, Jeddah, Saudi Arabia

ID 032 Marine Predators Algorithm and Tunicate Swarm Algorithm for Power System Economic Load Dispatch

Oluwafemi Ajayi, Reolyn Heymann and Ewaoche John Okampo, Centre for Collaborative Digital Networks, Department of Electrical and Electronic Engineering Science, University of Johannesburg, South Africa

ID 201 Performance Analysis of a Sugarcane Bagasse Cogeneration Power Plant in Grid Electricity Generation

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 112 Superconducting magnetic energy storage (SMES): grid integration and energy applications

Amal E. AbdelGawad, Electrical and Computer Engineering Department, Renewable Energy Engineering, Effat University, Jeddah, Saudi Arabia
Mohamed Abdulmajid, Energy and Technology Research Center, Effat University, Jeddah, Saudi Arabia
Nehal Alyamani, Electrical and Computer Engineering Department, Renewable Energy Engineering, Effat University, Jeddah, Saudi Arabia

ID 134 Thermodynamic Evaluation of a Solar Based Kalina Cycle

Imran Jeannot, Md Mizanur Rahman, Aminuddin Saat, Hasan Mohd Faizal and Mazlan Abdul Wahid, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), 81310 Johor Bahru, Johor, Malaysia

ID 470 Towards the Application of Pumped-Hydro Storage in Nigeria

Oluseye A. Adebimpe, Victor O. Oladokun and Inyeneobong E. Edem, Department of Industrial and Production Engineering, University of Ibadan, Nigeria

ID 1192 Superconducting Magnetic Energy Storage (SMES) within Grid and Energy Applications

Mohammed Abdulmajid, Amal E. AbdelGawad, and Nehal A. Alyamani, Electrical and Computer Engineering Department, Renewable Energy Engineering, Effat University, Jeddah, Saudi Arabia

5:00 – 6:45, WEDNESDAY**Business Management****Room 4**

Session Chair: Mohd Yusoff Yusliza, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 553 The Mediating Role of Universities Environment in the Relationship Between Self-Efficacy, Family Environment and Entrepreneurial Intention

Bob Foster, Faculty of Economic and Business, Universitas Informatika dan Bisnis Indonesia, Bandung, Jawa Barat 40285, Indonesia
 Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Muhamad Deni Johansyah, and Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jatinangor 45363, Bandung, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 598 The Moderating Role of Training on Personality and Behaviour Intention to Participate among Nature Tourist Guide

Md Khairul Azwan Md Razali, Khatijah Omar, Hazman Samsudin, Muhammad Abi Sofian Abdul Halim and Norhayati Ab Manaf, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, 21030, Kuala Nerus, Terengganu, Malaysia
 Siti Nor Adawiyah Azzahra Kamaruddin and Jumadil Saputra, Faculty of Business, Economic and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 545 The role of collaboration in mediating distinctive capability on performance in the digital industry in Indonesia

Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia
 Rully Armanto, Management Department of Economics Faculty, Universitas Tamansiswa Palembang, Palembang, Indonesia
 Verawaty, Accounting Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

ID 364 The Role of Foreign Aid between Health and Poverty Reduction Strategy Implementation: The Case of Chad

Khalil Abakar Moussa Kaya, Abd Rahman Ahmad and Ganama Moustapha Gueme, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 596 Understanding the Antecedents of Employee Green Behaviour through the Lens of Psychological Variables

Olawole Fawehinmi, M.Y. Yusliza, Zikri Muhammad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Terengganu, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 260 Valuation of PT Adaro Energy Tbk by Forecasting of Indonesian Coal Index Using Geometric Brownian Motion and Fiscal Impact of Indonesian Law 3 Year 2020

Idam Faisal Rahman and Yunieta Anny Nainggolan, School of Business and Management, Institut Teknologi Bandung, Bandung, West Java, Indonesia

ID 1100 Analysing the Impact of Coaching on Teachers' and Students' Performance

Mohd Yusoff Yusliza, Nik Sarah Athirah Nik Afzan, Zaliha Zainuddin, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Shan Moorthi, Teamcoach International Sdn. Bhd., 21B, Faber Towers, Jalan Desa Bahagia, Taman Desa, 58100 Kuala Lumpur, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

5:00 – 6:45, WEDNESDAY

Lean Six Sigma and Simulation Competition

Room 5

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

LEAN SIX SIGMA COMPETITION

ID 485 Application of Lean Six Sigma in PET Bottle Production Line at P.T. Peace Industrial Packaging

Sharin Chandra, Student of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
 Lina Gozali, Lecturer of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 619 Application of Lean Six Sigma to Improve The Food Bank Singapore's Vending Machine Replenishment Process – A Case Study

Julian See, School of Business, Singapore University of Social Sciences, Singapore, Singapore
 Huay Ling Tay, School of Business, Singapore University of Social Sciences, Singapore, Singapore

ID 481 Redesigning The Facility Layout With Systematic Layout Planning Method and Lean Manufacturing Approach On The Production Floor At PT. Baruna Trayindo Jaya

Dino Ramadhan, Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia

SIMULATION TECHNICAL PAPER COMPETITION

ID 798 Acoustic Vibration Sensing and Control Mechanism for Boilers

Bongi Mhlongo, and Daramy Vandí Von Kallon, University of Johannesburg, South Africa

ID 805 Investigateing the Efficiency of Centrifugal Pumps via FEA

Motsi Ephrey Matlakala and Daramy Vandí Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa

ID 949 Investigation of Cracks and Damages at the Bends of Soot Blower tubes

Nkosinathi Siyabonga Kubheka and Daramy Vandí Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building , 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

ID 1042 Investigation of Cracks and Damages at the Bends of Soot Blower tubes

Nkosinathi Siyabonga Kubheka and Daramy Vandí Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building , 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

March 10, 2021 (Wednesday) - Session: 7:00 – 8:45 pm

7:00 – 8:45 pm, WEDNESDAY

Industry Solutions V

Room 1

Session Chair: Dr. Saso Krstovski, Ford Motor Company, Michigan, USA

7:00 pm (Wednesday, March 10) - Room 1

Steven Sibrel

Senior Supplier Quality Manager
Harman International
Novi, Michigan, USA
Professional Development Chair and Past Chair – ASQ Greater Detroit

7:20 pm (Wednesday, March 10) - Room 1

Obaidul Gani, MSIE, P.E, CSSBB, CLE

Director of Operations & Manufacturing
Lacerta Therapeutics
Gainesville, Florida, United States

7:40 pm (Wednesday, March 10) - Room 1

Ts. Dr. Mehran Doulat

Associate Professor
MBA Review Committee/Coordinator
Xiamen University Malaysia (XMUM)
Director of Centre for Operational Excellence Research (COER)
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Title: Sustainable Supply Chain Management (SSCM) Practices: Insights from Malaysian Non-Manufacturing Industries

8:00 pm (Wednesday, March 10) - Room 1

Eng. Kenn Wong, BEE, PgDip, MBA

Regional Sales Manager, Asia Pacific Region
ESW Vision GmbH, Malaysia

8:20 pm (Wednesday, March 10) - Room 1

Atif Baig, MBA

Research Associate
The Centre for Organisational Excellence Research (COER)
Massey University
Palmerston North, New Zealand

Title: An exploration of the organisational excellence architecture required to support an award-winning business excellence journey

8:40 pm (Wednesday, March 10) - Room 1

Dr. Saso Krstovski, MBB

Lean Manufacturing Coach /Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company, Michigan, USA

7:00 – 8:45 pm, WEDNESDAY

Technical Session

Room 2

Session Chair: Fazli Wadood, Department of Management Sciences University of Buner KP, Pakistan

ID 843 The Effect of Population Growth on Economic Growth: An Evidence from Indonesia

Mahdawi, Nirdukita Ratnawati, Department of Economics, Universitas Tri Sakti, Grogol, 11440, Jakarta Barat, Indonesia
Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Rumiris Siahaan, Suci Etri Jayanti, Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
Pinondang Nainggolan, Department of Economic, Universitas Simalungun, Pematang Siantar, 21142 Sumatera Utara, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 858 Technological Innovation Strategy and Commercialization of Charging Station Technology: A Case Study in Indonesia

Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia,
 Wahyudi Sutopo, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1109 The impact of 5S Kaizen in the implementation of Lean manufacturing in South Africa (SA)

John Zvidzayi, Mangosuthu University of Technology, Department of Mechanical Engineering, Jacobs, Durban, South Africa

ID 1101 Fault Tree Analysis of a Reverse Osmosis Plant

Mohammed A. Hajeeh, Techno-Economics Division, Kuwait Institute for Scientific Research, P.O. Box 24885; Safat-13109, Kuwait

ID 1096 The Effect of Leverage, Profitability, Sales Growth, and Thin Capitalization Towards Tax Avoidance on Service Companies in The Trade, Service, and Investment Sector Listed on The Indonesia Stock Exchange

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia and Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
 Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
 Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
 Maria, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480

ID 1098 Barriers to growth of Small and Medium Enterprises (SMEs) in Libya

Waheed Elsharie, Researcher, University of Reading. School of Politics Economics and International Relations
 Abdussalam Shibani, School of Energy construction and Environment, Coventry University, United Kingdom

ID 1108 A Meta-Synthesis on the Challenges Faced by Microenterprises and SMEs in Developing Economies

Fazli Wadood, Department of Management Sciences University of Buner KP, Pakistan
 Mohammed Emad Alshaikh, Department of Management Information Systems (MIS), Imam Abdulrahman Bin Faisal University (IAU) Dammam, Saudi Arabia
 Abdul Talib Bin Bon 3Fazal Akbar, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia.
 Rao Aamir Khan, Department of Management Science. Comsats University Islamabad, Pakistan

7:00 – 8:45 pm, WEDNESDAY

Technical Session

Room 3

Session Chair: A. Yusdianti Tenriawali, Universitas Iqra Buru, Indonesia

ID 1064 Licensing Services in the Era of the COVID-19 Pandemic

Reynilda, STIE Nobel Indonesia, Makassar, Indonesia
 Henni Zainal, Universitas Indonesia Timur, Makassar, Indonesia
 Syamsu Rijal, Universitas Sembilanbelas November, Kolaka, Indonesia
 Sudiarti Dewi Kurra, Universitas Negeri Makassar, Indonesia
 Nasaruddin H, STISIP 17-18-1945, Makassar, Indonesia
 Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia
 Saidan Zulfiqar bin Tahir, Universitas Iqra Buru, Maluku, Indonesia

ID 1056 A Review of Paradiplomacy Literature: Mini – Review Approach

Risky Novialdi, Rohana Ahmad, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1016 Valuation for Agriculture Business Swiftlet Bird Nest Farming Using Discounted Cash Flow Analysis Case Study: “Wahana Walet Sejahtera” in Berau East Kalimantan

Arif Widya Susanto and Yunieta Anny Nainggolan, School of Business and Management, Institut Teknologi Bandung Indonesia

ID 1055 A Study of Democracy and the Political Change in Malaysia

Rosyidah Muhamad, Raja Zirwatul Aida Raja Ibrahim, Jumadil Saputra and Siti Aisyah Saat, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1044 Ability to Compile Argumentative Essays in Waepotih High School Students Buru Regency

A. Yusdianti Tenriawali, Universitas Iqra Buru, Maluku, Indonesia

ID 1046 Personal Characteristics of the Author in the Language Style of Dewi Lestari's Supernova Hexalogy

Sumiaty, STAKN Toraja, South Sulawesi, Indonesia

ID 1025 Focalizator in Novel Telegram by Putu Wijaya

A. Yusdianti Tenriawali, Universitas Iqra Buru, Indonesia

7:00 – 8:45 pm, WEDNESDAY

Business Analytics

Room 4

Session Chair: Elaine C. Villegas, Mapúa University, Manila, Philippines

ID 1175 Parenting Strategy Implementation Model in PT. Telkom Indonesia

Heru Basuki Purwanto, Agus Rahayu, Disman, and Lili Adi Wibowo, Doctoral Program of Management, Universitas Pendidikan Indonesia, Jalan Setiabudhi 229, Bandung, Indonesia

ID 1178 The Influence of Knowledge, Social Media Utilization and Motivation on Entrepreneurial Intention (Case Study: Telkom University Students)

Wifiani Sukma Dewi, Mahir Pradana and Devilia Sari, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Indonesia

ID 1179 The Influence of Cristiano Ronaldo As Brand Ambassador on E-Commerce Purchase Intention

Yossi Indriani Putri, Mahir Pradana and Fitriani Nur Utami, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia
Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Indonesia

ID 1186 Credit Card Sales Performance Dashboard

Darrel John Beltran, Yves Kangleon, Ariel Kelly Balan and Joel de Goma, School of Information Technology, Mapua University, Makati, Philippines

ID 1188 Employee Performance Prediction using Different Supervised Classifiers

Merry Grace T. Li, Macrina Lazo, Ariel Kelly Balan and Joel de Goma, School of Information Technology, Mapua University, Makati, Philippines

ID 1199 P Physical Assessment and Perceived Quality of E-jeepney in Metro Manila

Ellaine C. Villegas, Niño Chino B. Ledres, and Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St. Intramuros, Manila, Philippines

7:00 – 8:45 pm, WEDNESDAY

Doctoral Dissertation Competition

Room 5

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 539 Using Latin Hypercube Hammersley Sampling Method for Algorithm Parameter Tuning: A Case for Differential Ant-Stigmergy Algorithm

Yasemin Eryoldaş and Alptekin Durmuşoğlu, Department of Industrial Engineering, Gaziantep University, Turkey

ID 742 The Relationship Between Innovation Capabilities And Organizational Performance For Economic Development Department Of United Arab Emirate (Uae): Proposed Framework

Anoud Khalifa and Wan Fauziah Wan Yusoff, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 902 Innovation Capabilities, Organisational Culture and Performance of Economic Development Department in UAE: Structural Model

Anoud Khalifa, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Wan Fauziah Wan Yusoff, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1077 Impact of Critical Influential Factors of Knowledge Management and Innovation on UAE Organization Performance

Khalid Buafra, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia,
Shahrul Salahudin, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1054 Knowledge Management and the performance of the universities in UAE: Theoretical perspective

Khalid Buafra, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Shahrul Salahudin, Department of Technology Management and business, 1Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1120 Critical factors that affect logistics performance in UAE ADNOC Oil and Gas Industry performance

Mohamed Fuad and Haslinda Musa, Faculty of Technology Management and Technopreneurship, Universiti Teknikal Malaysia Melaka

ID 1157 Impact of Multiple Marketplaces in Agricultural Supply Chain

Dewang Pagare, Operations Management Area, Indian Institute of Management Lucknow, Lucknow, UP - 226013, India
Indranil Biswas, Information Systems, Supply Chain & Decision Making area, Neoma Business School, Rouen, France
Amit Agrahari, Information Technology & Systems Area, Indian Institute of Management Lucknow, Lucknow, UP - 226013, India
Sriparna Ghosh, Economics area, University of Cincinnati, Ohio, Ohio 45221, USA

ID 1184 Shared Capacity Routing Problem for Buy-Online-Pickup-in-Store Order Fulfillment

Rajendra Baraiya and Rohit Kapoor, Operations Management & Quantitative Techniques Department, Indian Institute of Management, Indore, India
Prabandh-Shikhar, Rau-Pithampur Road, Indore, Madhya Pradesh, India

March 10, 2021 (Wednesday) - Session: 9:00 – 10:30 pm

9:00 – 10:30 pm, WEDNESDAY

Panel Session

Room 1

Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair

Professor Cecilia Nembou

President and Vice-Chancellor (Retired)
Divine Word University
Papua New Guinea

Panel Speakers

Dr. NG Szu Hu Associate Professor and Acting Head Department of Industrial Systems Engineering and Management National University of Singapore Singapore	Dr. Hannelie Nel Senior Lecturer, Postgraduate School of Engineering Management Faculty of Engineering and the Built Environment University of Johannesburg South Africa
Dr. Ho Hwi Chie, M.Sc. Dean, Binus Aso School of Engineering (BASE) Bina Nusantara University (Binus) Binus Aso School of Engineering BASE Campus, Jl. Alam Sutera Boulevard No. 1 Tangerang, Banten 15325, Indonesia	Jihong Yan, Ph.D. Professor in Industrial Engineering Deputy Dean of School of Mechatronics Engineering Head of intelligent Manufacturing Scientific Research Team Harbin Institute of Technology Harbin, China
Professor Donald M. Reimer Director of Membership and Chapter Development – IEOM President, The Small Business Strategy Group, Detroit, USA Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering Lawrence Technological University, Southfield, Michigan, USA	Hajj Flemings CEO/Founder Rebrand Cities Birmingham, Michigan, United States

March 11, 2021 (Thursday) - Session: 8:00 – 9:45 am

8:00 – 9:20, THURSDAY**Global Business Management / Entrepreneurship Education I****Room 1**

Session Chair: Dr. Surya Prakash, BML Munjal University, Gurgaon, Haryana, India

8:00 – 8:20 (Thursday)

Dr. Le Thi Huynh Anh

Faculty of Project Management
The University of Danang, University of Science and Technology
Vietnam

8:20 – 8:40 (Thursday)

Dr. Vincent F. Yu

Department of Industrial Management
National Taiwan University of Science and Technology
Taipei 10607, Taiwan

8:40 – 9:00 (Thursday)

Dr. Hsiu-I Ting

Department of Information and Finance Management
National Taipei University of Technology
Taipei 10608, Taiwan

9:00 – 9:20 (Thursday)

Dr. Surya Prakash

Ph.D. (Supply Chain Design)
School of Engineering and Technology
BML Munjal University,
(A HERO group initiative)
Gurgaon, Haryana, India

8:00 – 9:45, THURSDAY**Business Management****Room 2**

Session Chair: Isfenti Sadalia, Universitas Sumatera Utara, Medan Baru, Medan, Sumatera Utara, Indonesia

ID 575 Exploring Determinant Factors Structure that Influence the Intention to Sustainable Tourism Destination: Case Study of Sumai Hotel and Apartment Sdn. Bhd.

Zaliha Zainuddin, Zaleha Mohamad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Mohd Hanafi Azman Ong, Department of Statistics and Decision Sciences, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA Johor, Muar, 85000 Segamat, Johor, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 363 Foreign Direct Investment and Economic Development in Sub Saharan Africa: A Case of Chad Republic

Ganama Moustapha Gueme, Maimunah Binti Ali and Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
 Hissein Araby Nour, Faculty of Economics Science and Management, (Faculté des Sciences Économiques et Gestions, FSEG), University of N'Djamena, Chad

ID 341 Green Business Publication: Insights from Scientometric Analysis (1990-2019)

Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
 Mega Firdaus, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia
 Atik Widiyanti, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia
 Mochamad Choifin, Mechanical Engineering Department, Universitas Ma'arif Hasyim Latif, Sidoarjo, Indonesia
 Lailatul Maghfiroh, Public Health Department, Airlangga University, Surabaya, Indonesia

ID 597 Green Transformation and Finance: A Mini-Review Approach

Dian Primanita Oktasari, Nurasyikin Jamaludin, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 111 Identification of B2B E-Commerce Competition Market in Indonesia

Lalita Padmapuspita J, Rahmat Nurcahyo and Djoko Sihono Gabriel, Industrial Engineering Departement, Universitas Indonesia, Depok, Indonesia

ID 618 Intervening Role of Leadership Cost in the Effect of Financing Strategy, Investment Policy, Managing before Interest and Taxes and Earnings Management on Financial Performance of Indonesian State-Owned Enterprises (SOEs)

Syarifa Yunindiah Lestari, Hafiza Aishah Hashim, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 614 Investigating the Canonical Correlation of Global Capital, Index, Exchange Rate and Golden Price in Two Selected ASEAN Countries

Isfenti Sadalia and Maria Marbun, Department of Management, Universitas Sumatera Utara, Medan Baru, Medan, Sumatera Utara, Indonesia
 Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
 Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
 Elina Maisyarah, Badan Pusat Statistik Kota Tebing Tinggi, Tebing Tinggi Kota, Tebing Tinggi, 20998 Sumatra Utara, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

8:00 – 9:45, THURSDAY

Healthcare Systems

Room 3

Session Chair: Rodrigo E Peimbert-García, Tecnológico de Monterrey / Macquarie University, Monterrey / Sydney, Nuevo León / New South Wales, Australia

ID 307 An Analysis of Internet of Things Technology Selection for Hospital Laboratory Maintenance

M. Rizky Alfarisi and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 202 An Integrated Approach for Performance Evaluation of Healthcare Industry with proposed Leagile Policy Framework

Kingshuk Sen, The Institution of Engineers (India), Kolkata, India
 Surojit Ghosh, The Institution of Engineers (India), Kolkata, India
 Bijan Sarkar, Production Engineering Department, Jadavpur University, Kolkata, India

ID 304 ICU Patient Monitoring Improvement Using Internet of Things (IoT) with BPR Approach

Sanyadwia Ghinasni Zen, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 161 Perception and Expectation of Dental Clinic Services in Jakarta, Indonesia

Ahmad Akmludin Sahid, Rahmat Nurcahyo, and Farizal, Industrial Engineering Departement, Universitas Indonesia, Depok 16436, Indonesia

ID 453 The Impact of Intrusion Detection Systems Upon Healthcare Environments: A Research Review

Tasfia Bari M.S., College of Technology, Eastern Michigan University, USA
 Munther Abualkibash, School of Information Security and Applied Computing, College of Technology, Eastern Michigan University, USA

ID 118 Linking Lean Adoption/Implementation in Healthcare to National Cultures

Rodrigo E Peimbert-García, Tecnológico de Monterrey / Macquarie University, Monterrey / Sydney, Nuevo León / New South Wales Australia

8:00 – 9:45, THURSDAY

Operations and Project Management

Room 4

Session Chair: Yugowati Praharsi, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

ID 548 Analysis Business Process Incident Management Cloud: Case Pt. Xyz Using Software R and Prom

Ngakan Made Satrya, and Gadang Ramantoko, Faculty of Economic and Business, Telkom University Telecommunication street No. 1 st, Bandung, Indonesia

ID 593 Analysis of Relationship between Leadership and Employee Performance at Manufactur Company in Indoenesia

Dedi Iskanto, Mahbubah Srimulatsih, Putra Budi Ansori, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia
 Dedi Iskanto, Puspa Liza Ghazali, Wan Mohamad Asyraf Wan Aftahonan, Salman Lambak and Nik Hazimi Mohd Foziah, Faculty of Business and Management, Universiti Sultan Zainal Abidin. 21300 Kuala Nerus, Terengganu. Malaysia.
 Jenita, Faculty of Syariah and Law, Universitas Islam Negeri Sultan Syarif Kasim, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 592 Application of Economic Mathematical Model in Production of Gold Sub-Sector in Indonesia

Sukono, Riaman, and Collins Friskilia Sibarani, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
 Hasriati, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Riau University, Indonesia
 Agung Prabowo, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Jenderal Soedirman University, Indonesia
 Kalfin, Doctor Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
 Faiza Renaldi, Department of Informatics Engineering, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, West Java, Indonesia
 Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 407 Application of Vehicle Routing Problem to Determine Optimal Route in Fuel Distribution: A Case Study

Era Febriana Aqidawati, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Maulana Ichwan Anshory, Aprilia Dityarini, Yuniaristanto, Wahyudi Sutopo, and Brahmastya Artanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 115 Critical Success Factors during Execution of EPCC National Strategic Project in Indonesia

Dika Fajar Pratama Setiadi, Rahmat Nurcahyo and Farizal, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia

ID 314 Modeling and Analysis of a Software Development Project with Design Structure Matrix and Simulation Approach in an Indonesian Startup

Emanuella Tifany, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 368 Scrum Method Implementation for Project Management in a Construction and Installation New Automotive Factory Facility in Indonesia

Frezi Majesty, M.Dachyar, and Djoko Sihono Gabriel, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 009 The Performance of Project Management at Traditional Shipyard in East Java, Indonesia

Yugowati Praharsi, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
 Muhammad Abu Jami'in, Electrical Engineering Department, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
 Gaguk Suhardjito, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
 Hui-Ming Wee, Industrial and System Engineering, Chung Yuan University, Chung Li, Taiwan

8:00 – 9:45, THURSDAY**Operations Management****Room 5**

Session Chair: Abd Aziz, Poppy Rachman, Islamic University of Zainul Hasan Genggong, Probolinggo, Indonesia

ID 1189 An Upcycling Opportunity for Household Textile Waste in Malaysia

Emy Ezura A-Jalil, Technology and Supply Chain Excellence Institute and School of Technology Management and Logistics, College of Business, Universiti Utara Malaysia, 06010, Sintok, Kedah, Malaysia

ID 1200 A Conceptual Framework for Sustainable Supply Chain Management Practices of Small and Medium Enterprises

Mehran Doulatabadi and Hak Kenn Wong, MBA Centre, Xiamen University Malaysia, 43900 Sepang, Selangor, Malaysia

ID 1205 Role of IMF Lending Preconditions in Nigeria

Raziqa Muhammad Shafiu and Mohd Afandi Salleh. Faculty of Law and International Relations, Universiti Sultan Zainal Abidin (UniSZA), Terengganu, Malaysia

ID 628 Measuring psychometric properties of the Career Orientation Scale for High School Students: insights from the Rasch measurement tool

Zakki Nurul Amin, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
 Juhdi Amin, Institut Agama Islam Negeri Surakarta, Surakarta, Central Java, Indonesia
 Kusnarto Kurniawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
 Eko Nusantara, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 649 The Learning Innovations Through Using Of Ict In Junior High School At Semarang

Kustiono and Budiyo, Lecturers, Department of Curriculum and Educational Technology, Faculty of Education, UNNES, Indonesia
 Eko Purwanti, Lecturers of Elementary School Teacher Education Department, Faculty of Education, UNNES, Indonesia
 Ulfah Musdalifah, Lecturers, Department of Midwifery, Poltekkes Ministry of Health Semarang, Indonesia

ID 1211 Information Technology in the Development of Language Aspects of Early Childhood

Abd. Hamid Wahid, Fathor Rozi, Hasan Baharun, Musyrifah, Wiwin Hidayati, Ana Sriwahyuningsih
 Islamic Faculty, Nurul Jadid University, Paiton, Probolinggo, Indonesia

Mamluatun Ni'mah, Islamic University of Zainul Hasan Genggong, Probolinggo, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia (OM)

ID 1212 Learning Strategies and Motivation with the ARCS Model for Mobile-Assisted Seamless

Abd Aziz, Poppy Rachman, and Hasan Baharun, Islamic University of Zainul Hasan Genggong, Probolinggo, Indonesia

Chusnul Muali, Dedi Wahyudi, Moh Afandi, and M. Saiful Islam, Islamic Faculty, Nurul Jadid University, Paiton, Probolinggo, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

March 11, 2021 (Thursday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:30 – 9:40 am, Conference Chair Remarks

9:40 – 10:20 am, Thursday - **Keynote XII**

Robert de Souza

Executive Director

The Logistics Institute – Asia Pacific (TLI – Asia Pacific)
Singapore

10:20 – 11:00 am, Thursday - **Keynote XIII**

Jenson Goh

Chief Information and Learning Officer
Monde Nissin Singapore Pte Ltd., Singapore

11:00 – 11:40 am, Thursday - **Keynote XIV**

Hoong Chuin LAU

Professor of Information Systems and
Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab
Singapore Management University (SMU), Singapore

11:40 am – 12:20 pm, Thursday - **Keynote XV**

Murphy Choy

Director of Operations and Technology
SSON Analytics, Singapore

12:20 – 1:00 pm, Thursday - **Keynote XVI**

Dr. Noordin Mohd. Yusof

Professor, Department of Materials, Manufacturing and Industrial Engineering
Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), and
Former Dean of Faculty of Mechanical Engineering
UTM, Malaysia

March 11, 2021 (Thursday) - Session: 1:00 – 2:45 pm

1:00 – 2:45, THURSDAY**Global Business Management / Entrepreneurship Education II****Room 1**

Session Chair: Prof. Shekar Babu, AMRITA University, Bangalore, India

1:00 – 1:20 (Thursday) – Room 1

Aalok Kumar, PhD

Assistant Professor
Indian Institute of Management Visakhapatnam
Uttarakhand, India

1:20 – 1:40 (Thursday)

Rajendra Baraiya

Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

1:40 – 2:00 (Thursday) – Room 1

Dr. Muhammad Khan

Lecturer in Management Sciences, Timergara Campus
Abdul Wali Khan University
Mardan, KPK, Pakistan

2:00 – 2:20 (Sunday) – Room 1

Dr. Shams Rahman

Professor of Operations and Supply Chain Management
School of Business IT and Logistics
Deputy Head of School, Research and Innovation.
RMIT University
Melbourne, Victoria, Australia

2:20 – 2:40 (Sunday) – Room 1

Prof. Shekar Babu

Founding Head, AMRITA School of Business, Bangalore
Adjunct Faculty, SUNY, Buffalo, USA
Research & Consulting
AMRITA University
Bangalore, India

1:00 – 2:45, THURSDAY**E-Business/E-Service****Room 2**

Session Chair: Anita Verma, Kalindi College, Delhi University, India

ID 610 Adaptive Behaviors of Economies on Global Trade, Global Connectivity, and Ethnic Fractionalization: The new global trade frontier?

Demetria May T. Sanial, University of Science and Technology in Southern Philippine, Philippines

ID 136 Critical Success Factors of E-Commerce Collaboration in Indonesia

Prawira Adi Putra, Rahmat Nurcahyo and Farizal, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia

ID 459 Development of a Maturity Model based on the Input, Process, and Output Aspects of E-government

Naning Aranti Wessiani, Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Surabaya, East Java, Indonesia

ID 431 Student Discount E-Platform for Higher Education students in Sri Lanka

Shanathani Kugarajan and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, 57, Ramakrishna Road, Sri Lanka

ID 882 A Study of Stakeholders Perception of Factors Affecting Online Food Delivery Service Industry in the Philippines

SeonJae Lim and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 998 The Influence of Consumer Behavior On Purchasing Decision Process of Tokopedia E-Commerce Customers In Indonesia

Aditya Wardhana, Mahir Pradana, Diki Wahyu Nugraha, Hasna Shabira, Telkom University, Indonesia

ID 964 Determining Factors Influencing Behavioral Intention for Usage of Digital Remittances – A Conceptual Model

Anita Verma, Assistant Professor (Senior Grade), Kalindi College, Delhi University, India
Rahela Farooqi, Professor, CMS, JMI University, New Delhi, India

1:00 – 2:45, THURSDAY**Information Technology and Information Systems****Room 3**

Session Chair: Mohammed A. Khasawneh, Concordia University, Montreal, Quebec, Canada

ID 040 Economic Growth, Information Technology and Military Development

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta 13630, Indonesia
 John Tampil Purba and Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

ID 041 Evaluation of Window Parameters of Noncontrast Cranial CT Brain Images for Hyperacute and Acute Ischemic Stroke Classification with Deep Learning

Supatta Viriyavisuthisakul and Natsuda Kaothanthong, School of Management Technology, Sirindhorn International Institute of Technology (SIIT), Thammasat University, Pathum Thani, Thailand
 Parinya Sanguansat, Panyapiwat Institute of Management, Nonthaburi, Thailand
 Choochart Haruechaiyasak, National Electronics and Computer Technology Center, Pathum Thani, Thailand
 Minh Le Nguyen, Japan Advanced Institute of Information Technology (JAIST), Nomi city, Japan
 Soawapot Sarampakhul, Tanapon Chansumpao and Dittapong Songsaeng, Department of Radiology, Siriraj Hospital, Faculty of Medicine, Mahidol University, Bangkok, Thailand

ID 530 Information systems to manage transportation issues

Agnes Antbäck, Julia Galus, Josefine Kristiansson, and Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, Sweden

ID 609 Potential Used of Social Media/Mobile Phone to Support Promotion and Marketing in the Rural Tourism Destination

Suroto Adi, Binus University, Jakarta, Indonesia

ID 468 Quickip: Equipment Borrowing System for Laboratory Facilities

Josephine D. German, Paz Clariz A. Barzaga, Samantha Dominique C. Bucac, and Samantha Cyrine R. Ibe, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 625 Control of Raw Material Quality in the Fruit Puree Industry Using Gaussian Filter and Extraction of Features Based on Android Applications

Hermawan, Arie Qur'ania, Soma Sulisty, Sawarni Hasibuan and Adriana Sari Aryani, Department of Computer Science, Universitas Pakuan Bogor, Indonesia

ID 127 Improving Software Security in Extreme Programming Methodology

Mohammed A. Khasawneh, Concordia University, Montreal, Quebec, Canada

1:00 – 2:45, THURSDAY**Logistics and Transportation****Room 4**

Session Chair: Chanikan Pholpipattanaphong, Chiang Mai University, Chiang Mai, Thailand

ID 205 A Combined Approach of AHP and DEMATEL Methods for Evaluating Key Success Factors of 3PL Service Providers

Theruwanda Perera, Annista Wijayanayake and Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

ID 424 A Mixed Integer Programming Model for Fuel Efficiency with Logistics Uncertainties Impact

Mohammad Al-Yanieff Iqkmal Mohamad, S.Sarifah Radiah Shariff, Mohd Hafiz Afifi Azmi, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
 S.Sarifah Radiah Shariff, Centre for Statistics and Decision Science Studies, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

ID 419 A Tri-level AHP Approach for Port Logistics Personnel Performance Evaluation

Muhamad Safuan Shamsol Bahri, S.Sarifah Radiah Shariff and Nur Syaza Izurin Zolkefley, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
 S. Sarifah Radiah Shariff, Centre for Statistics and Decision Science Studies, Faculty of Computer and Mathematics, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
 Nazry Yahya, JP Skills Centre, Johor Port Berhad, Malaysia

ID 035 Conceptualization of Logistics Management Knowledge in Healthcare Context

LDCS Layangani, Department of Transport and Logistics Management, University of Moratuwa, Sri Lanka

ID 542 Frugal Innovation: Contact-less last mile delivery as Résilient business model

Hassan Bergi, Niyazudeen Kamarudeen and Balan Sundarakani, Faculty of Business & Management, University Of Wollongong in Dubai, Knowledge Park, Dubai, UAE

ID 360 Fuzzy AHP Signifies Criteria Influencing Third Party Logistics Selection in Outsourcing Decisions of Freight Forwarding Company

Rapatsorn Suratos and Rawinkhan Srinon, The Cluster of Logistics and Rail Engineering (CLARE), Faculty of Engineering, Mahidol University, Nakhon Pathom, 73170, Thailand

ID 279 Improving Operational Efficiency of Pharmaceutical Inventory

Chanikan Pholpipattanaphong, Graduate Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

Sakgasem Ramingwong, Excellence Center in Logistics and Supply Chain Management Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

1:00 – 2:45, THURSDAY**Operations Management****Room 5**

Session Chair: Heru Basuki Purwanto, Universitas Pendidikan, Bandung, Indonesia

ID 1206 Students' Perception on Cooperative Learning with Jigsaw Technique Applied in Prose Classroom

Fety Surfaifel, Febe Fenny Irawati Wanggai, and Fransiskus Maria Separ, Universitas Flores Indonesia, Ende, Indonesia

ID 1207 Parenting Strategy Implementation Model in PT. Telkom Indonesia

Heru Basuki Purwanto, Agus Rahayu, Disman, and Lili Adi Wibowo, Doctoral Program of Management, Universitas Pendidikan, Jalan Setiabudi 229, Bandung, Indonesia

ID 1209 Analysis of the Application of Agriculture Accounting (PSAK 69) in Plantation Subsector Companies Registered in Indonesia Stock Exchange 2017-2018

Retno Martanti Endah Lestari, Arief Tri Hardiyanto, Abdul Kohar and Yuni Asrika, Department of Accounting, Faculty of Economics Pakuan University, Bogor Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1220 Hand Anthropometry Survey for Bangladeshi Female Population

Subrata Talapatra and Nourin Mohsin, Department of Industrial Engineering and Management Khulna University of Engineering & Technology, Khulna 9203, Bangladesh

ID 1083 Mortality and Economic Consequences of Handwashing.

Omas Bulan Samosir, Faculty of Economic and Business, Universitas Indonesia, Jakarta, Indonesia

ID 1282 The Role of Lean Practice of Single Minute Die Exchange (SMED) in Improving Manufacturing Performance

Muhammad Bukhsh, Under Graduate Final Year Student & Group Leader (Final Year Thesis), Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

Syed Iqbal Hussain Zaidi, RabailYaseen, Anas Khalid, Abdul Razzaque and Mazhar Ali, Under Graduate Final Year Student & Group Member (Final Year Thesis), Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

ID 1224 Towards a New Platform to Test the Entrepreneur Profile according to the MDA Approach: Cim Specification

El Omari Mouad and Rhouti Abdelkader, University Mohamed First, Oujda, Morocco

March 11, 2021 (Thursday) - Session: 3:00 – 4:45 pm

3:00 – 4:45, THURSDAY**Global Business Management / Entrepreneurship Education III****Room 1**

Session Chair: Professor Paul Jones, Swansea University, Wales, UK

3:00 – 3:20 (Thursday) – Room 1

Sagit Kedem-Yemini, Ph.D.

Lecturer, Logistics Department
Industrial Engineering and Management
Sapir Academic College
Israel

3:20 – 3:40 (Thursday) – Room 1

Ms. Marwa Abdel Tawab Mahmoud

Tourism Studies Department
Faculty of Tourism & Hotels
Fayoum University
Faiyum, Egypt

Entrepreneurship and Tourism: A Case Study of Egypt

3:40 – 4:00 (Thursday) – Room 1

Ar. Sana Malik

PhD Scholar, Universiti Sains Malaysia, Penang

Assistant Professor, School of Architecture and Planning
University of Management & Technology
Lahore-54770, Pakistan

Title of Talk: Construction Management of Commercial Housing Development: Dynamics of Real Estate Sector

4:00 – 4:20 (Thursday) – Room 1

TBA

4:20 – 4:40 (Thursday) – Room 1

Professor Paul Jones

Head of Business Department
Professor of Entrepreneurship and Innovation
Head of REF UoA17 2021 Business Submission
School of Management
Swansea University
Bay Campus, Fabian Way
Swansea, SA1 8EN
Wales, UK

Editor in Chief: International Journal of Entrepreneurial Behavior and Research

Associate Editor: International Journal of Management Education

Book Series Editor: Contemporary Issues in Entrepreneurship Research

3:00 – 4:45, THURSDAY

Occupational Safety and Health (OSH)

Room 2

Panel Chair: Joanna Zorawska, Department of Geriatrics, Wroclaw Medical University, Poland

ID 045 An Investigation into Campus Safety and Security

Nokwanda Dlamini, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Oludolapo A. Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 464 Analysis of Road Traffic Accident Criticality in CALABARZON Philippines

Vicente P. Velasco and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 482 Analysis of Road Traffic Accident Distribution in Tagaytay City Philippines

Dandy P. Abrigo and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 559 Assessment of the current working condition of the garment workers and determining the importance of labor union for the improvement of working condition in the RMG industry of Bangladesh

Mohsin Uddin, Md. Redwan Ullah, and Md. Raziur Rahman Dipto, Department of Apparel Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka, Bangladesh

ID 385 Contribution of Model 24 to Accident Analysis

Widad Bousfot, Saadia Saadi, and Mébarak Djebabra, Laboratory of Research in Industrial Prevention (LRPI), Health and Safety Institute, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria

ID 743 Exercise regiment modification concurrent with pharmaceutical intervention in elderly population: A Review

Joanna Zorawska, Department of Geriatrics, Wroclaw Medical University, Poland
Julian Jastrzab Costner, Student of Wroclaw Medical University, Poland

3:00 – 4:45, THURSDAY

Quality Control and Reliability

Room 3

Session Chair: Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 568 Improving the Efficiency and Performance of Underground Water Purification Plant in the Gold Mine

P.B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa
M. Pita, Department of Mechanical Engineering, Faculty of Engineering and Technology, University of South Africa

ID 006 The Assessment of Preparedness Level of Individual and Household in Disaster Prone Area in Sleman Regency to Encounter Merapi Mountains Eruptions

Nanek Utami Handayani, Tatag Wahyu Sugmasantika, Yusuf Widharto, and Zainal Fanani Rosyada, Department of Industrial Engineering, Diponegoro University, Semarang, 50275, Indonesia

ID 591 Estimate the Location of Basaltic Intrusion in Karanglewas Village Jatilawang District Banyumas Regency Central Java Based on the Pseudogravity Anomaly Map

Sehah and Urip Nurwijayanto Prabowo, Department of Physics, Faculty of Mathematic and Natural Sciences, Jenderal Soedirman University, Purwokerto, Central Java, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 208 Lean Implementation in Pakistani Process Industries

Asim Amjad, Institute of Quality and Technology Management, University of the Punjab, New Campus, Lahore, Pakistan

Iqra Ramzan, Department of Mechanical Engineering, University of Management and Technology, Lahore, Pakistan

Hafiz Muzammal Hussain, Institute of Quality and Technology Management, University of the Punjab, New Campus, Lahore, Pakistan

ID 411 YASREF Journey towards Business Transformation

Hamzah M. Al-Sharif, Yanbu Aramco Sinopec Refining Company (Yasref) Ltd., Yanbu Industrial City 41912, Kingdom of Saudi Arabia

ID 682 A New Three-Dimensional Chaotic System with Stable Equilibrium: Its Adaptive Control and Circuit Design

Siti Hadiaty Yuningsih, Master Program in Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran, Indonesia

Sukono, Departement of Mathematics, Faculty of Mathematic and natural Sciences, Universitas Padjadjaran, Indonesia

Aceng Sambas, Departement of Mechanical Engineering, Universitas Muhammadiyah Tasikmalaya, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 335 A System Dynamics Modelling Approach for Assessment Palm Oil Company Supply Chain under Policy Intervention: Case Study in Indonesia's Private Company

Nathania Astria, M. Dachyar, and Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Indonesia

3:00 – 4:45, THURSDAY

Business Analytics

Room 4

Session Chair: L.V.C.N. De Mel, University of Kelaniya, Kelaniya, Sri Lanka

ID 432 A mobile based solution for Model United Nations

Shimar Ahamed Zubair and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, 57, Ramakrishna Road, Sri Lanka

ID 142 Building a Model for Detecting Accounting Fraud in Tokyo Stock Exchange Listed Companies Using Machine Learning Method

Natsuki Sato, Ayuko Komura, and Hirohisa Hirai, Department of Industrial Engineering and Management, Kanagawa University, Kanagawa, Japan

ID 550 Forecasting Gold Exchange Rate on USD (XAUSD) in FOREX Market

Yuli Eni and Bachtiar H Simamora, Management Study Program, BINUS Business School, Bina Nusantara University, Jakarta, Indonesia

ID 556 Mobile Business Intelligence Application Design for Retail Micro and Small Enterprises (MSEs)

Roehl Matoza Jr.; Lex Marco Paolo Miranda, Julianne Isabel Sitoy; and Grace Lorraine D. Intal, School of Information Technology, Mapua University, Intramuros, Manila, Philippines

ID 1095 Profitability, Liquidity, Advertising Cost and Firm Size Towards Tax Aggressiveness In Indonesia

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Lily Cyntiany, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 348 Predicting Students' Performance in the University: A Review of Literature on the Machine Learning Techniques

L.V.C.N. De Mel and D.N. Wickramarachchi, Department of Industrial Management, University of Kelaniya, Kelaniya, Sri Lanka

3:00 – 4:45, THURSDAY

Innovation and Case Study

Room 5

Session Chair: Stephen Da Silva, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 1085 The influence of innovation on business performance mediated by the entrepreneurial spirit of PT Pegadaian (Persero) agents

Joko Prasetyo, Doctoral Program Management students, Universitas Sriwijaya, Palembang, Indonesia

Syamsurijal A. Kadir, Zakaria Wahab, and Muchsin Saggaff Shihab, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia

ID 1221 Development of Different Disc Brake Rotor Designs

Stephen Da Silva and Daramy Vandí Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 1227 Overview of the Implementation of Quality Management System in Facilities Management

Mehran Doulatbadi, Xiamen University Malaysia, Malaysia

Mat Naim Bin Abdullah, Universiti Teknologi Malaysia (UTM), Malaysia

ID 1228 The Emerging of Dynamic Capabilities for Socially Responsible Operations and Innovation Development in The COVID-19 Pandemic Situation

Hadi Purnomo, Universitas Gadjah Mada (UGM), Indonesia, Universitas Kristen Immanuel (UKRIM), Indonesia

Wakhid Slamet Ciptono, Universitas Gadjah Mada (UGM), Indonesia

Hargo Utomo, Universitas Gadjah Mada (UGM), Indonesia

ID 1232 Dynamic Planning Integrated to Production and Maintenance in Composites Cndustry: Application of MaSe Methodology

Fatima Zahra DABAJ, Youssef AOURA, Latifa OUZIZI, Mohammed DOUIMI and Abdelhafid NACHOUR, Ecole Nationale Supérieure Des Arts Et Metiers, Meknes, Morocco

ID 1236 Design of the address and strategic plan of the microenterprise Chepas Franciscanas s.a.s

José David Bohórquez Gil and Kendra Pérez Hernández, Faculty of Industrial Engineering, Bolívar University of Technology, Cartagena, Colombia
Carlos Humberto Gualdron García, Faculty of Industrial Engineering, Bolívar University of Technology, Cartagena, Colombia

March 11, 2021 (Thursday) - Session: 5:00 – 6:30 pm

5:00 – 6:30, THURSDAY

Global Supply Chain and Logistics Education

Room 1

Session Chair: Dr. Sujeet Singh, Indian Institute of Management Jammu, India

5:00 pm (Thursday, March 11)

Dr. Rajeev Agrawal

Associate Professor

Mechanical Engineering Department

Associate Dean (Research)

Malaviya National Institute of Technology Jaipur

India

Disruptive technologies in supply chain for promoting sustainability

5:20 pm (Thursday, March 11)

Dr. Ibrahim CIL

Professor, Department of Industrial Engineering

Sakarya University

Sakarya, Turkey

5:40 pm (Thursday, March 11)

Dr. Sujeet Singh

Assistant Professor and Chairperson (Research)

Indian Institute of Management Jammu

India

6:00 pm (Thursday, March 11)

Dr. Rajesh Kr Singh

Professor (Operations and SCM)

Management Development Institute, Gurgaon

Gurgaon, Haryana, India

Associate Editor-International Journal of Consumer Studies (ABDC-"A") and Journal of Global Business and Competitiveness

5:00 – 6:30, THURSDAY

Facilities Planning and Layout

Room 2

Session Chair: Choesnul Jaqin, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 466 A Facility Layout Improvement Design Model in Selected Garments Manufacturing in Metro Manila

Omar Shariff C. Mailan, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 405 The Impact of Industry 4.0 on Facility Layout Planning

Sahil Lahoria, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University (PDPU), Raysan, Gandhinagar, Gujarat, India

M.B. Kiran Department of Mechanical Engineering School of Technology Pandit Deendayal Petroleum University (PDPU) Raysan, Gandhinagar, Gujarat, India

ID 008 Smart sustainable manufacturing: From Literature review to a green framework

Imane Benkhalti, Faculté des Sciences Semlalia Marrakech Casablanca Grand Casablanca, Morocco

ID 900 Aggregate Production Planning: A Case Study of Installation Elevator Company

Chanipa Nivasanon and Isaree Srikan, Faculty of Industrial Technology, Phranakhon Rajabhat University, Thailand

Pasura Aungkulanon, Faculty of Engineering, King Mongkut's University of Technology North Bangkok, Thailand

ID 908 Application of Quick Scan Technique to Increase Productivity in Garment Manufacturing Industry

Katesara Wongchaiya, Department of Industrial Engineering, Chiang Mai University, Chiang Mai, Thailand
 Poti Chaopaisarn, Center of Excellence in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai, Thailand
 Sainatee Chernbumroong, Faculty of Business Administration, Chiang Mai University, Chiang Mai, Thailand

ID 1152 Improving Curing Process Productivity in the Tire Industry Using OEE, TPM and FMEA Methods

Choiri Purwanto, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
 Choesnul Jaqin, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

5:00 – 6:30, THURSDAY

Business Analytics

Room 3

Session Chair: Abdalla Alrshdan, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

ID 332 Gender, Student Background, and the Implications for the Emergence of Student Entrepreneurial Activities

Eriana Astuty, Okky Rizkia Yustian, and Chyntia Ika Ratnapuri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia

ID 166 Effects of Parental Involvement in Remote Learning as a Response to the Educational Needs of Students in the Philippines

Criselle Jennylyn A. Basco, Khalil P. Birung, Maria Veronica G. Celfo, Jasper A. Espanola, Saira S. Murcia, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 262 Social Development of Healthcare Workers in the Philippines during the COVID-19 Pandemic

Dominic D. Guarin, Glenn Armand C. Sia, Sharmaine Jane O. Sibug, Candie Gail V. Lopez, Joshua L. Leonardo, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 337 Designing Service Quality Improvement for Halal Certification in Indonesia Food Industry through Measurement of Service Quality (SERVQUAL) and Business Process Re-engineering (BPR)

Hafizha Marianto Putri, M. Dachyar, and Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 011 Food Waste Management of Restaurants in KwaZulu-Natal South Africa

Saijal Sucheran and Oludolapo A. Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 796 Establish Relation in Collaborative Governance in Micro and Small Business Development in Palopo City, South Sulawesi Province, Indonesia

Andi Meriam, Department of Financial Management, Faculty of Economy, University of Andi Djemma, Palopo, 91921, Indonesia
 Harsya Harun, Department of Public Administration, Faculty of Social and Political Science, University of Andi Djemma, Palopo, 91921, Indonesia

ID 626 Monitoring Water Consumption Using Machine Learning

Malek Almobarek, Design, Manufacturing & Engineering Management, University of Strathclyde, Glasgow, UK
 Abdalla Alrshdan, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

5:00 – 6:30 pm, THURSDAY

Disruptive Technologies / Smart Technologies

Room 4

Session Chair: Alfonso, Adrian B., Mapua University, Makati City, Philippines

ID 388 Additive Manufacturing using Titanium Alloys- A Review

M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 595 Proposed Innovations on Contact Tracing System using Contactless Smart Cards in the Philippines

Darwin A. Medel, Joshua Millard N. Odicka, Ma. Zhenadoah Leen T. Santos, and Grace Lorraine D. Intal, School of Information Technology Mapua University, Intramuros, Manila, Philippines

ID 383 Supply chain design using Industry 4.0-A Review

M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 1104 A Vulnerability Assessment on the Parental Control Mobile Applications' Security: Status based on the OWASP Security Requirements

Eric B. Blancaflor, Kiel Cedrick T. Huplo, Gerardine Anne J. Anson, Mark Anthony V. Marin, Angela Mae V. Encinas and Stephany G. Zamora, School of Information Technology, Mapua University, Makati City, Philippines

ID 1105 Let's Go Phishing: A Phishing Awareness Campaign using Smishing, Email Phishing, and Social Media Phishing Tools

Alfonso, Adrian B., Banganay, Kevin Nicholas U., Dela Cruz, Gabriel Angelo B., Blancaflor, Eric B., Fernandez, Karen E. and Santos, Shawn Austin M., School of Information Technology, Mapua University, Makati City, Philippines

ID 387 A short survey on the role of technology in transforming education

Somya Agrawal, Department of Information Management, Chaoyang University of Technology, Taichung, Taiwan

5:00 – 6:30 pm, THURSDAY

Teaching and Learning

Room 5

Session Chair: Johan Patrick, Institute Teknologi Sepuluh Nopember, Indonesia

ID 1237 Prediction of Student's Performance Using Support Vector Machine Classifier

Farhatul Janan, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka- 1208, Bangladesh

Sourav Kumar Ghosh, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka- 1208, Bangladesh

ID 1238 Prediction of Student's Performance Using Random Forest Classifier

Sourav Kumar Ghosh and Farhatul Janan, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Dhaka 1208, Bangladesh

ID 1239 Personals Endorsement Based on Digital Marketing in Islamic Educational Institution; an Effort to Increase Brand Credibility

Akmal Mundiri, IAIN Pekalongan, Central Java, Indonesia

Hasan Baharun, Nurul Hidayati Aprilia Haslim, Fitriatus Sholikah, and Aisyah, Nurul Jadid University, Probolinggo, East Java, Indonesia

Zamroni, Institut Agama Islam Negeri Samarinda, Indonesia

Dakir, Institut Agama Islam Negeri Palangka Raya, Central Kalimantan, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1240 Gadget Media for the Effectiveness of Student Learning

Mastikawati, PIAUD STAI Ahsanta Jambi

Faizatul Widat, Sofian Syaiful Rizal, Suraida Fatma, Rohaniyah, and Rukmiati, Nurul Jadid University, Probolinggo, East Java, Indonesia

Edi Kurniawan Farid, University of Zainul Hasan Genggong, Probolinggo, East Java, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1241 Efforts to Improve Student Learning Outcomes; Identification of Learning Models in Madrasah

Dakir, Institut Agama Islam Negeri Palangka Raya, Central Kalimantan, Indonesia

Zamroni, Institut Agama Islam Negeri Samarinda, Indonesia

Adi Wibowo, Sekolah Tinggi Agama Islam An-Nawawi Purworejo, Central Java, Indonesia

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Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1242 Analysis of Student Satisfaction Using Online Video Conference Application based on Usability Criteria

Johan Patrick, Institute Teknologi Sepuluh Nopember, Indonesia

March 11, 2021 (Thursday) - Session: 6:30 – 8:00 pm

6:30 – 8:00 pm, THURSDAY

Global Supply Chain and Logistics Education

Room 1

Session Chair: Dr. Rajesh Kr Singh, Management Development Institute, Gurgaon, Haryana, India

6:30 pm (Thursday, March 11)

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Assistant Professor

Malaviya National Institute of Technology Jaipur

Jaipur, Rajasthan, India

6:50 pm (Thursday, March 11)

Prof. Atour Taghipour

Professor of Operations & Supply Chain Management

Normandy University

Le Havre, Normandy, France

7:10 pm (Thursday, March 11)

Dr. Tarvo Niine

Associated Professor of Supply Chain Management

Tallinn University of Technology

Tallinn, Estonia

7:30 pm (Thursday, March 11)

6:30 – 8:00 pm, THURSDAY

Waste Management

Room 2

Session Chair: Agus Mulyadi, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

ID 203 A Performance Analysis and Modification of a Biogas Plant for Slaughter House Waste Disposal

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa

Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 135 Design of Water Treatment Facilities for Integrated Areas of Office and Residential Buildings in Jakarta

Mochamad Agmarosa, Rahmat Nurcahyo and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

ID 050 Garbage Ship as an Island Waste Management Solution; Study Case of Gili Indah, Lombok

Agum Setyo Bintoro, Refiantika Rachma Utami and Suci Amalia Putri, Department of Marine Transportation Engineering, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember Surabaya East Java Indonesia
 Wimolo Katamsi, Department of Naval Architecture, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia

ID 148 Literature Review of Coal Waste Utilization

Nisrina Nabella Putri, Sangki Purabaya, Asrur Roziki, and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 747 Techniques for Better Management of Municipal Solid Waste Strategies: A Case Study of Moratuwa Municipality, Sri Lanka

A.P.K.D. Mendis and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

ID 857 Managing Hazardous Medical Waste during COVID-19: A Simulation Approach

Agus Mulyadi and Niniet Indah Arvitrida, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

ID 1084 Natural Implications of Crude Oil Spillage: A Case Study of Otuokpoti Oil Field, Bayelsa, Nigeria

Ngene Tochukwu and Oyekola Peter, Department of Applied Physics & Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea
 Ikpeteboa Abigail, Ministry of Water Resources, Bayelsa State, Nigeria

6:30 – 8:00 pm, THURSDAY

Work Design, Measurement and ISO

Room 3

Session Chair: Riska Rizqiwati, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 392 A Framework for Developing Model for Measuring Readiness, Economic Benefits, and Economic Feasibility of Standard Implementation: A Case Study

Era Febriana Aqidawati, Master Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
 Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia
 Eko Pujiyanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 105 Internal and External Factors Analysis of Calibration Laboratory Accreditation in Strengthening Indonesia Quality Infrastructure

Nur Aeni, Rahmat Nurcahyo and Djoko Sihono Gabriel, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 342 Predictors of Work-From Home Sustainability

Sophrene Claire S. Gadacho, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
 Erika Mae D. Jose, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
 Audrey Patricia Loraine B. Uson, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
 Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 447 The Effect of Mental Workload, Stress, and Learning Motivation on Student Learning Achievement during Online Courses

Dyah Santhi Dewi and Faricha Khairunnafi
 Department of Industrial and Systems Engineering, FTIRS, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia

ID 764 Improving the Performance of a Chiller System during Operation

Peter Baonhe Sob, Vaal University of Technology, South Africa

ID 911 Design of Supplier Performance Measurement for Aircraft Material Supplier in Aircraft Maintenance Company

Riska Rizqiwati, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
 Niniet Indah Arvitrida, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

6:30 – 8:00 pm, THURSDAY

Occupational Safety and Health (OSH)

Room 4

Session Chair: Jafri Mohd Rohani, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia

ID 386 Contribution to the Quantitative Study of Violence in Algerian Hospital Environment

Yamina Heddar, Mébarek Djebabra and Saadai Saadi, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria

ID 446 Designing of Building Readiness Assessment Instruments in Accordance with the Covid-19 Protocol

Anny Maryani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 569 Framework on Safety Influential Factors for the Performance of Malaysian Construction Industry

Mosab Sultan Saeed Albarkani, Faculty of Technology Management and Business, Department of Construction Management, University Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia
 Haryati Binti Shafii, Faculty of Technology Management and Business, Department of Construction Management, University Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 390 HFACS Analysis for Investigating Human Errors of an Algerian Oil & Gas company

Saadai Saadi, Mébarek Djebabra and Ghuecham Adel, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria

ID 248 Predictors of Lean Enterprise: A Case of Assessing Organizational Lean Readiness

Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 426 Scheduling Operating Room by Considering Surgical Inventory, Post Anesthesia Beds and Emergency Surgeries to Improve Efficiency during the COVID-19 Outbreak with Machine Learning

Shahab Amrollahbioui, and Yvan Beauregard, Mechanical Engineering Department, École de Technologie Supérieure, Montréal, Canada

ID 429 Occupational Accidents and Prevention through Design in the Malaysian Construction Industry

Mohammed Yahya Ali Yahya, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

Jafri Mohd Rohani, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, UTM Johor Bahru, Johor, Malaysia

6:30 – 8:00 pm, THURSDAY**Environmental Engineering****Room 5**

Session Chair: Muna Al-Obadi, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

ID 552 Internal and External Factors Affecting ISO 14001 Certification in the Indonesian Food Industry: Lesson from the Experts

Noviana Bayu Alnavis and Dwi Nowo Martono, School of Environmental Science, Universitas Indonesia, Salemba, 10430, Jakarta, Indonesia

Udi Syahnoedi Hamzah, Master of Petroleum Engineering, Universitas Trisakti, Grogol, 11440, Jakarta, Indonesia

ID 031 Life Cycle Assessment of Ordinary Portland Cement (OPC) using Damage Oriented (Endpoint) Approach.

Busola Dorcas Olagunju, and Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban university of Technology, Durban, South Africa

ID 415 Product Environmental Quality Assessment: An Appraisal Model for Corporate Decision-Makers

HADDACH Abdelhay, Research Team: Materials, Environment and Sustainable Development, Faculty of Sciences and techniques, Abdelmalek Essaadi University, Tangier, Morocco

ID 622 In Silico Study of Tyramine-Fe Complex in Brotowali (*Tinospora crispa*) as Anti-Inflammatory

Wimbuh Tri Widodo, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang, East Java, Indonesia

Djoko Herry Santjojo, Department of Physics, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang, East Java, Indonesia

Sri Widyarti, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang 65145, East Java, Indonesia

Sutiman Bambang Sumitro, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang, East Java, Indonesia

ID 825 Vulnerability to Hydrometeorological Hazards: A Barangay Level Assessment for the Municipality of Boac, Marinduque

Josephine D. German and Ma. Monica L. Joven, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

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Froilan P. Ney, School of Graduate Studies, Mapúa University, Manila, Philippines, School of Engineering, Marinduque State University, Marinduque, Philippines

ID 1121 Carbon Footprints across the Food Supply Chain: A Microscopic Review on Food Waste-Related Sustainability Assessment

Muna Al-Obadi, Adeeb A. Kutty, Galal M. Abdella, and Murat Kucukvar, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

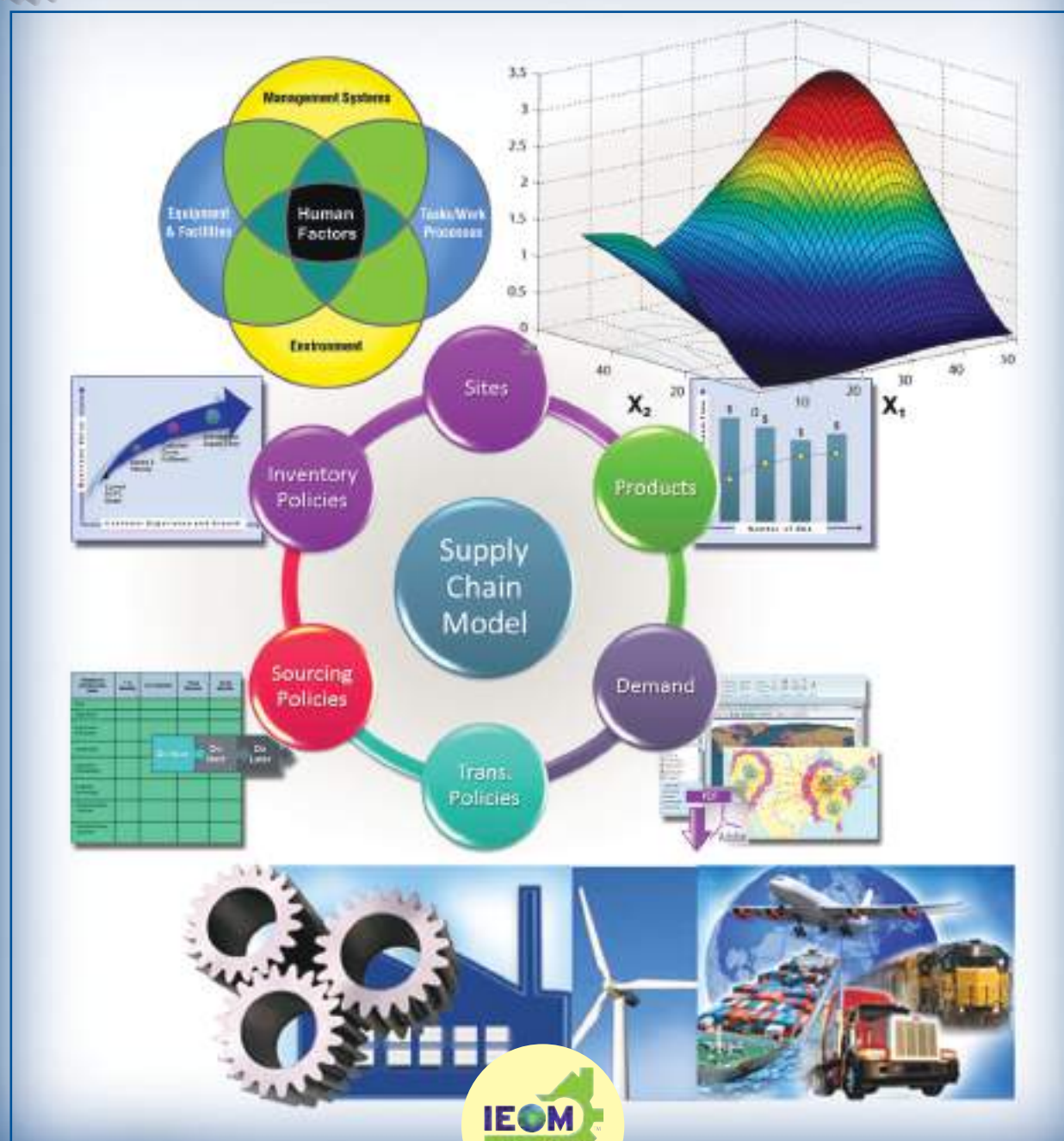
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The Influence of Work Motivation and Organizational Culture to Employee Performance

Syardiansah, Abdul Latief and Jefri Ramadansyah

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Abstract

This research was conducted to determine the effect of work motivation and organizational culture on employee performance at the Sapta Jaya Community Health Center, Rantau District, Aceh Tamiang Regency. The sampling technique used is non probability using saturated sampling. The sample in this study amounted to 50 respondents. The data analysis method used is multiple linear regression analysis, hypothesis testing using t test, F test, and determination test (R^2). The results showed that $Y = 1.766 + 0.288X_1 + 0.346X_2$. The results of t test work motivation $t_{sig} < \alpha 5\%$ ($0.037 < 0.05$) can be stated that work motivation has a significant effect on employee performance. The results of the t test for organizational culture $t_{sig} < \alpha 5\%$ ($0.013 < 0.05$) can be stated that organizational culture has a significant effect on employee performance. The results of the F test are known from $F_{sig} < \alpha 5\%$ ($0.000 < 0.05$), it can be stated that work motivation and organizational culture simultaneously have a significant effect on employee performance. The result of the coefficient of determination (R^2) is 0.327 or 32.7%. Work motivation and organizational culture affect employee performance and the remaining 67.3% is influenced by other variables.

Keywords: Work Motivation, Organizational Culture, and Performance

1. Introduction

In any organisation, it is not possible to negotiate the availability of skilled human resources (HR). The Root technical resource can be seen from the results of its output quality. As the implementation of information science and technology becomes a very significant source of competitive advantage, the ability from success is to provide services to the public

It requires the competitiveness of a good corporate organization to provide good service. An organization must compete not only in terms of productivity to stimulate the morale of employees, but also in its ability to provide good public services and other quality services.

An organization or company's competitiveness will be largely determined by the competence of the quality of human resources it has. Competitive companies that are increasing have forced the organization to include human resource quality in the organizational development strategy in the approach of organizational and human resource management (Syardiansah et al, 2020). Management of human resources is an important factor in the success of the organization's business performance. The main challenges facing the organization in the present and future are how to prepare for quality, innovative and highly creative human resources.

In order to achieve employee performance in line with organizational objectives, work motivation and organizational culture must be maintained in the organization to continue to be enhanced. Based on the findings of prior research carried out by Syardiansah et.al. At The Royal Hotel in East Aceh and Cut Meutia Langsa Hospital (2020), it was found that organizational culture has a major impact on the performance of employees. Similarly, only the results of research carried out by Syardiansah et.al. At PT Pati Sari in Aceh Tamiang (2019), the motivation to work has a significant impact on employee performance.

Work motivation is the activity of behaviors that work to meet business needs (Haryati et al. 2019; Mora et al. 2020; Latief et al. 2019). Work motivation is a set of behaviors that provide a foundation for a person to act in a manner that is direct to a specific goal Fahmi (2016). According to Sutrisno (2015), the factors that influence work motivation are derived from internal factors that are self-employed, such as: intention to live, intention to have the object, intention to receive the award, intention to gain recognition, desire to have a power. External factor that comes from outside self-employees, such as: condition of the work environment, adequate compensation, good supervision, guarantee of employment, status and responsibility, policy flexibility.

According to Ratna (2015), work motivation dimensions cover: salary (salary was received with a salary expected by the employee, salary is accepted in accordance with the workload), relationship between employees in helping each other to assist the task with employee relationships. Working and working conditions in the workplace with physical comfort conditions and non-physical conditions.

Work motivation provides a great advantage because work motivation is a factor driving a person's behavior to do a good job. The employees who get motivation from colleagues, it can inspire enthusiasm for work. The Sapta Jaya subdistrict of Rantau district of Aceh Tamiang employee health center provides a sense of satisfaction and comfort in carrying out the task of the job that will be done directly, so that the employees who have been given the motivation will work much better and ultimately have an impact on performance improvement. The employee who get motivated at work will do the good work that ultimately leads to good cultural organizations.

Organizational culture is a pattern of assuming that a person or employee has found, created or developed the basis with the intention that the government institution can cope with and overcome the problems that arise (Abduloh et al. 2020; John et al. 2020 ; Wijoyo et al . 2020). Organizational culture is a system of meaning alongside that adopted by the members of the organization that distinguishes the organization from other organizations, according to Robbins in Sunyoto (2011). In the meantime, according to Badeni (2013), organizational culture is a set of values, assumptions, and standards of behavior that most members of the organization develop and believe as a reference in the management of the organization or the resolution of organizational problems, both internally (increasing efficiency, effectiveness, and integration) and in the face of external problems.

Organizational culture, according to Sunyoto (2011), has two primary functions: as the mechanism of internal integration, where the members of the organization can be united so that they can understand how to interact with each other. The internal role of integration will give someone and colleagues more collective identity and provide guidance on how someone can efficiently collaborate. The organizational culture determines how the organization meets its various goals and deals with external parties as an external adaptation process. In response to changing times, competition, innovation and consumer services, this function will ensure a level of organizational adaptation.

In interacting within government institutions, cultural organizations become a benchmark alongside them in the power of human resources (HR). Cultural organizations can also influence the way employees act and become a benchmark in each PHC Sapta Jaya sub-district Rantau district of Aceh Tamiang district policy.

Performance can illustrate the level of achievement of the implementation of an activity program in the achievement of the company's objectives, goals, vision and mission of the organization, as outlined in an organization's strategic

planning. Improving an employee's performance is not work that can be done easily, in a fast but necessary process to achieve (David et al. 2019; Haudi et al. 2020 ; Cahyono et al. 2020). One of the ways that each institution usually implements to improve employee performance by paying attention to the organization's culture and creating motivational work for employees. According to Bangun (2012), performance is the result of a person's work based on the job's demands (job requirement).

In the meantime, performance is the result of work and work behavior that has been accomplished in completing tasks and responsibilities given over a certain period, according to Kasmir (2016). As for the variables that affect performance, namely the ability to properly complete work, according to what has been determined, the motivation of a person to do a job will increase his performance, and opportunity is a function of the absence of obstacles controlled by the employee

Several indicators can be used to measure employee performance. In Kasmir (2016), there are five types of employee and employee performance indicators, namely: k Quality of (quality) performed by seeing the quality (quality) of the work produced through a specific process. The more perfect a product, the better the performance, and vice versa if the quality of the low-produced work is too low the performance. Quantity (amount) that a person produces by looking at the quantity (amount).

Time (period of time) , to a certain types of job given limit of time in completing the job . If the provisions of these are abused or not met, then it can be considered to perform less well, as well as vice versa. Supervision, with their oversight, then each job will produce a good performance. While a job that does not track the work's outcomes may already be sure the results that are not good would be much worse than that predicted. And h an association between the staff will create an atmosphere that is comfortable and works together that allows mutual support for each other to generate much better work activity.

2. Reaserch Method

This research was conducted at the Sapta Jaya sub-district health center in the Rantau district of Aceh Tamiang, situated in the Cempaka village of Jl village of the Suka Mulia district of the Rantau district of Aceh Tamiang. The research population in the whole district of Aceh Tamiang, which included 50 participants, is the Sapta Jaya Health Center.

The sampling technique used in this study is *non-probability* using saturated sampling, which is a sampling technique when all members of the population are used as samples (Sugiyono, 2016). Therefore, the number of samples used is the same as the population, which is 50 respondents.

In this analysis, data sources for a data primer were collected directly from workers in health centers in the Aceh Tamiang district of Sapta Jaya subdistrict of Rantau. And secondary data, knowledge collected from reference books, papers, archives, which are considered to be reference help in the form of hypotheses and data relating to the study of this.

In this research, the collection of data is a means of observation, interviews and questionnaires (Sugiyono 2014). Study observations are carried out by analyzing everyday tasks conducted by the workers. In order to collect more data to solve problems, interviews are carried out to obtain more information. Researchers collect and process the data from the questionnaire for the benefit of the analysis to provide weight scores of each question-based s if Likert uses the 1-5 scoring system.

Data analysis approaches in the research are the use of a quantitative approach of multiple linear regression analysis. In this analysis, the variable relationship model $Y = a + b_1 X_1 + b_2 X_2$.

Where:

Y	= Performance appraisal
X ₁	= Work motivation
X ₂	= Organizational culture
a	= Constanta
b ₁ , b ₂	= Regression Coefficient

As for the hypothesis test, the test is partial (test t), which is to analyze the importance of the relationship between each variable X and Y. (Sunyoto, 2013). As for the form of the hypothesis test, as follows: $H_0: b_1 \neq b_2 \neq 0$, the effect of a variable independent of the dependent variable was not significant. $H_a: b_1 = b_2 = 0$, an independent variable significantly have effect on the dependent variable. Decision requirements are as follows: H_0 accepted if $t_{\text{significant}} > 5\%$ and H_a accepted if $t_{\text{significant}} < 5\%$.

Simultaneous testing of the hypothesis (Test F) was carried out to simultaneously test the importance of the relationship between X and Y variables. As for the form of the hypothesis test, as follows: $H_0: b_1 \neq b_2 \neq 0$, simultaneously there is the effect was not significant from a variable independent to variable dependent. $H_a: b_1 = b_2 = 0$, simultaneously there is influence significantly from variable independent to variable dependent. Criteria for making the decision as follows: H_0 accepted if $F_{\text{significant}} > 5\%$ and H_a accepted if $F_{\text{significant}} < 5\%$.

The determination coefficient (R^2) of the multiple regression results indicates how large a variable bound by the independent variable can be explained (Sunyoto 2013). The decision coefficient is $0 \leq R \leq 1$. The decision coefficient (R^2) is between 0 (zero) and 1 (one). A zero value is provided by the determination coefficient (R^2), so the independent variable has absolutely no effect on the dependent variable. If the coefficient of decision is similar to one, the independent variable may be assumed to influence the dependent variable.

3. Results and Discussion

Processing results using the input method based on data derived from questionnaire outcomes distributed to 50 respondents. The SPSS statistics 23 are used to measure the statistics in the regression linear multiple. On the basis of the calculation results, the equation linear regression multiple obtained by $Y = 1,766 + 0,288X_1 + 0,346X_2$

Table 1 Multiple Regression Linear Result

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	1.766	.502		3.518	.001
	Work Motivation	.288	.135	.297	2.142	.037
	Organizational Culture	.346	.133	.360	2.596	.013

Source: processed data SPSS, 2019

It is possible to understand from the linear regression equation that values of 1,766 are the value of employees' constant results. This means that if the independent variable equals zero or constant, the value of employee output would be constant at 1,766.

A positive effect of 0.288 is demonstrated by the job motivation variable (X 1). This implies that it would improve employee efficiency by 0.288 any time there is an increase of 1 unit in the job motivation variable. The variable of organizational culture (X 2) shows a positive effect of 0, 346 on employee efficiency. This implies that it would improve employee efficiency by 0, 346 each time there is an increase of 1 unit in the organizational culture variable.

For $0.037 < 0.05$, the use of values significantly from variable job motivation was obtained, then the hypothesis that work motivation affects the performance of the workers received significantly. That is, job motivation has a big effect on employee performance. The significant value of the organizational culture variable is gained by $0.013 < 0.05$, then the hypothesis that states that the culture of the company has a significant effect on employee performance is obtained. That is, the organizational culture has a huge effect on employee efficiency.

Table 2 ANOVA demonstrates the outcome test F variable task motivation and organizational culture on employee efficiency at the same time. Values F sig. It amounted to 0,000 because it can be mentioned that the variable job motivation and organizational culture at the same time have a major effect on the performance of an employee at the Sapta Jaya subdistrict of Rantau district of Aceh Tamiang health center, lower than the value of alpha (0.05). Thus, in the analysis, hypothesis is H_a is appropriate.

Table 2 ANOVA

	Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	0.699	2	,349	11,434	,000b
	Residual	1.436	47	,031		
	Total	2.135	49			

R Square values obtained from SPSS processing in Table 3 for 0,327. It suggests that the organization's variable motivation work and culture influences the performance of employees at the Sapta Jaya health center at 0,327 or 32.7%, while the remaining 67.3 % are affected by variables other than those not examined in the study as disciplined work, culture work, organizational commitment.

Table 3 Coefficient Determination

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.572a	.327	.299	.17481

Source: processed data SPSS, 2019

4. Conclusion

Based on results of the above discussion, it can be concluded that the test results partially indicate that the variables of work motivation and organizational culture have a significant impact on the performance of the Sapta Jaya Community Health Center, Rantau District, Aceh Tamiang Regency employees. Simultaneous test results show that work motivation and organizational culture variables have a significant impact on the performance of Sapta Jaya Community Health Center, Rantau District, Aceh Tamiang Regency employees. It is known from the results of the determination analysis coefficient that work motivation and organizational culture affect the performance of employees by 0.327% or 32.7%, while the remaining 67.3% are affected by other variables not analyzed in this report.

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