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Organizer

IEOM Society

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
Welcoming Message by Host, Universitas Sebelas Maret (UNS)

Prof. Dr. Kuncoro Diharjo, S.T., M.T.
The Vice-Rector for Research and Innovation Affairs
Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Honorary Chair of the 2nd Asia Pacific Conference on IEOM

Assalamu ‘alaykum wa rahmatullahi wa barakatuh

Ladies and Gentlemen,
It is a great pleasure and an honor for me to deliver this welcome remark at the Opening Ceremony of the 2nd Asia Pacific Conference on Industrial Engineering and Operations Management (2nd APIEOM), September 13-16, 2021, organized by IEOM Society International and Hosted by Universitas Sebelas Maret. Distinguished guests, 15 outstanding keynote speakers, 30 invited speakers, and 700 presenters technical session from 35 countries in this conference. Welcome to Universitas Sebelas Maret in virtual mode due to the current COVID-19 global pandemic. Welcome to Solo, a city of culture. Solo is the one place where you can feel the Spirit of Java.

Many thanks to the university partners that get involved in this event. They are Diponegoro University; Universitas Islam Negeri (UIN) Sunan Kalijaga Yogyakarta, UPN Veteran Yogyakarta, Telkom University, Tarumanagara University; and the Indonesian industrial engineering higher education institution cooperation agency or (BKSTI). This event is a part of the long collaboration with IEOM Society International that was initiated by the academic staffs of the Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret in 2018. I appreciate the supports from the Faculty of Engineering and especially Industrial Engineering Department to join with international collaboration organizations, such as The IEOM Society International, and to conduct and actively participate in international events, such as 2nd APIEOM.

Ladies and Gentlemen,
These efforts support The Universitas Sebelas Maret’s Vision: “Becoming the excellent center of development of science, technology, and art at international level based on the noble values of the national culture”. Moreover, 2nd APIEOM 2021 will support the line synergy towards UNS as a World Class University, as well as building stronger relationships between universities and industries, globally. Furthermore, we hope this event strengthens the cooperation between Universitas Sebelas Maret and other local and international partner universities. This collaboration should also involve more students in various countries in the world because they will be the successors of us to make a better world.

On behalf of Universitas Sebelas Maret and the Organizing Committee, I officially open the 2nd Asia Pacific Conference on Industrial Engineering and Operations Management. “Success is a part of progress, as a reward from moving forward. It is time for Indonesia to go global and be global”.

Thank you very much. Terima kasi. Matur nuwun

Wassalamu ‘alaykum wa rahmatullahi wa barakatuh

Have a good time to join the conference
Welcome to the 2nd Asia Pacific Conference on Industrial Engineering and Operations Management Surakarta, Indonesia, September 13-16, 2021

Prof. Dr. Ir. Whyudi Sutopo, ST., M.Si
Conference Chair & President IEOM Indonesia Chapter
Department of Industrial Engineering, Faculty of Engineering
University of Sebelas Maret (UNS), Surakarta, Indonesia

Greetings Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to Surakarta, Indonesia and the Second Asia Pacific Conference on Industrial Engineering and Operations Management, September 13-16, 2021. This event host is University of Sebelas Maret (UNS). This prestigious event provides a forum for academics, researchers, and practitioners from many industries to exchange ideas, knowledge and experiences on issues related to changing and dynamic trend in Industrial Engineering and Operations Management. Held annually by IEOM International, this diverse international event provides an opportunity to collaborate and advance the theory and practice, as well as, an healthy competition atmosphere among fellow researchers and students.

Our keynote speakers will address some current issues in Industrial Engineering and Operations Management:

Dr. Jessika E. Trancik
Massachusetts Institute of Technology, USA

Dr. Jay Lee
Foxconn Technology Group

Prof. George Q. Huang
The University of Hong Kong, Hong Kong

Dr. Robert de Souza
National University of Singapore, Singapore

Harry Kasuma Aliwarga
UMG Myanmar, Jakarta, Indonesia

Dr. Ahdad Ali
Lawrence Tech, Michigan, USA
Executive Director of IEOM

Prof. Dr. Eng. Koichi Murata
Nihon University, Japan

Prof. Rajesh Pipani
Nanyang Technological University, Singapore

Bertha Maya Sopha, PhD
Gadjah Mada University; Chair of BKSTI, Indonesia

Prof. Anicia Peters
University of Namibia, Windhoek Khomas, Namibia

Tom Gaasenbeek
Nexas Networks Inc., Ontario, Canada

Adil Dalal
Operations Enviromedica, Texas, USA

Dr. John Blakemore
University of Newcastle, Australia

Dr. Basuki Rahmad
PT Transforma Engineering & Solutions, Indonesia

Dr. Zain Tahboub
MENA College of Management (MCM) Dubai, UAE

Held concurrently, the 25th IEOM Global Engineering Education or Indonesian Engineering Education Conference (IEEC) session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 24th IEOM Industry Solutions and Industry 4.0 will showcase industry best practices and intelligent integration. IEOM Global Supply Chain and Logistics will address the global logistics challenges due to the worldwide pandemic situation. In addition, several outstanding panel sessions will explore current worldwide issues, such as Halal Supply Chain, Women in Industry and Academia (WIIA), Renewable Energy, Diversity and Inclusion, and Technopreneurship.

The IEOM Society expresses our deep appreciation to the conference organizing committee, international and local organization partners, 15 distinguished keynote speakers, 30 outstanding invited speakers, and 700 paper authors from 35 countries who create a wonderful collaboration in making an overwhelmingly successful event.

Success is a part of progress, as a reward from moving forward. It is time for Indonesia to go global and be global. Enjoy the conference!

On behalf of the organizing committee,

Professor Don Reimer
Director of Membership & Chapter of IEOM Society
Lawrence Technological University, USA

Dr. Muh. Hisjam
Program Chair
University of Sebelas Maret, Surakarta, Indonesia

Dr. Basuki Rahmad
Program Chair
State Islamic University Sunan Kalijaga, Yogyakarta, Indonesia

Dr. Manik Mahachandra
Program Chair
Diponegoro University, Semarang, Indonesia

We also thank to the host and local partners:
Conference Program

Day 1 – September 13 (Monday)
08:00 – 9:45 am Technical Presentations – Zoom Meeting Rooms 1-6
10:00 – 11:45 am Technical Presentations – Zoom Meeting Rooms 1-6
12:00 – 1:45 pm Technical Presentations – Zoom Meeting Rooms 1-6
02:00 – 3:45 pm Technical Presentations – Zoom Meeting Rooms 1-6
04:00 – 5:45 pm Technical Presentations – Zoom Meeting Rooms 1-6

Day 2 – September 14 (Tuesday)
8:00 am – Officially Opening the Conference from UNS Vice Rector – Zoom Meeting Room 1
8:20 am – Keynote Speaker I: Dr. Jessika E. Trancik, Professor, Institute for Data, Systems and Society (IDSS), Massachusetts Institute of Technology (Opening Keynote) – Zoom Meeting Room 1
9:00 am – Keynote Speaker II: Dr. Jay Lee, Vice Chairman and Board Member of Foxconn Technology Group, Member of World Economic Forum Global Future Council on Advanced Manufacturing and Production – Zoom Room 1
9:40 am – Keynote Speaker III: Prof. George G. Q. Huang, Chair Professor and Head, Department of Industrial and Manufacturing, Systems Engineering, The University of Hong Kong – Zoom Meeting Room 1
10:20 am Break
10:40 am – Keynote Speaker IV: Dr. Robert de Souza, The Executive Director of the The Logistics Institute – Asia Pacific (TLI – Asia Pacific), National University of Singapore, Singapore City, Singapore – Zoom Meeting Room 1
11:20 am Keynote Speaker V: Harry Kasuma (Kiwi) Aliwarga, CEO and Co-Owner, UMG Myanmar – Zoom Meeting Room 1
12:00 pm – LUNCH BREAK
1:00 pm – 2:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
2:45 pm – Break
3:00 pm – 4:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
4:45 pm – Break
5:00 pm – 6:45 pm Technical Presentations – Zoom Meeting Rooms 1-6

Day 3 – September 15 (Wednesday)
8:00 am – Conference Co-Chair Remarks – Zoom Meeting Rooms 1
8:20 am – Keynote Speaker VI: Dr. Ahad Ali, Associate Professor and Director of Industrial Engineering, Lawrence Technological University, Michigan, USA – Zoom Meeting Room 1
9:00 am – Keynote Speaker VII: Prof. Dr. Eng. Koichi Murata, College of Industrial Technology, Nihon University, Japan – Zoom Room 1
9:40 am – Keynote Speaker VIII: Dr. Rajesh Piplani, Associate Professor, The school of Mechanical and Aerospace Engineering, Systems and Engineering Management division, Nanyang Technological University, Singapore – Zoom Meeting Room 1
10:20 am Break
10:40 am – Keynote Speaker IX: Dr. Ir. Bertha Maya Sophia, Past Director of Industrial Engineering Undergraduate Program, Faculty of Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia and President – Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI) – Zoom Meeting Room 1
11:20 am Keynote Speaker X: Prof. Anicia Peters, Pro-Vice Chancellor: Research, Innovation & Development, University of Namibia
12:00 pm – LUNCH BREAK
1:00 pm – 2:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
2:45 pm – Break
3:00 pm – 4:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
4:45 pm – Break
5:00 pm – 6:45 pm Technical Presentations – Zoom Meeting Rooms 1-6

Day 4 – September 16 (Thursday)
8:00 am – Conference Co-Chair Remarks – Zoom Meeting Rooms 1
8:20 am – Keynote Speaker XI: Tom Gaasenbeek, Founder and CEO, Nexus Networks Inc., Hamilton, Ontario, Canada – Zoom Meeting Room 1
9:00 am – Keynote Speaker XII: Adil Dalal, President & CEO, Pinnacle Process Solutions, Intl, Austin, Texas, USA – Zoom Meeting Rooms 1
9:40 am – Keynote Speaker XIII: Dr. John Blakemore, Adjunct Professor at University of Newcastle, Blakemore Consulting International, Sydney, Australia – Zoom Meeting Room 1
10:20 am Break
10:40 am – Keynote Speaker XIV: Dr. Basuki Rahmad, ST, MT, CEO, PT. Transforma Engineering & Solutions, Bandung, Java, Indonesia
11:20 am Keynote Speaker XV: Dr. Zain Tahboub, President, MENA College of Management (MCM), Dubai, UAE – Zoom Meeting Room 1
12:00 pm – LUNCH BREAK
1:00 pm – 2:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
2:45 pm – Break
3:00 pm – 4:45 pm – Technical Presentations – Zoom Meeting Rooms 1-6
4:45 pm – Break
5:00 pm – 6:45 pm Technical Presentations – Zoom Meeting Rooms 1-6

8:00 – 10:00 pm, September 16: Conference Awards Ceremony and Announcing Competition Winners
Keynote Speakers

Day 2 – September 14 (Tuesday)

8:00 am, Tuesday, September 14 – Officially Opening The Conference – Zoom Meeting Rooms 1

8:20 am, Tuesday, September 14 – Keynote Speaker I: (Opening Keynote) – Zoom Meeting Room 1

Dr. Jessika E. Trancik
Professor
Institute for Data, Systems and Society (IDSS)
Massachusetts Institute of Technology
Boston, Massachusetts, USA

Jessika Trancik: Jessika Trancik is a professor in the Institute for Data, Systems, and Society at the Massachusetts Institute of Technology. Her research examines the dynamic costs, performance, and environmental impacts of energy systems to inform climate policy and accelerate beneficial and equitable technology innovation. Her projects focus on all energy services including electricity, transportation, heating, and industrial processes. This work spans solar energy, wind energy, energy storage, low-carbon fuels, electric vehicles, and nuclear fission among other technologies. Prof. Trancik received her B.S. from Cornell University and her Ph.D. from the University of Oxford as a Rhodes Scholar. She is currently an external professor at the Santa Fe Institute, and was formerly at Columbia University’s Earth Institute, and at WSP International/UNOPS (now Interpeace) in Geneva. Her work has been published in journals such as Nature Climate Change, Nature, Energy Policy, Proceedings of the National Academy of Sciences, and Environmental Science and Technology, and has been featured by news outlets such as the New York Times, Financial Times, Washington Post, and NPR.

9:00 am, Tuesday, September 14 Keynote Speaker II: – Zoom Meeting Room 1

Dr. Jay Lee
Vice Chairman and Board Member of Foxconn Technology Group
Member of World Economic Forum Global Future Council on Advanced Manufacturing and Production

Keynote Title: Industrial AI and Resilient Manufacturing Systems – Technologies, Challenges and Research Issues

Dr. Jay Lee is Vice Chairman and Board Member of Foxconn Technology Group. Prior to this position, he served as Vice Chairman of Foxconn Industrial Internet. Currently, he is on leave from Univ. of Cincinnati where he holds Ohio Eminent Scholar and L.W. Scott Alter Chair Professor and is the founding director of National Science Foundation (NSF) Industry/University Cooperative Research Center (I/UCRC) on Intelligent Maintenance Systems (www.imscenter.net). In addition, he is the Founding Director of Industrial AI Center (www.iaicenter.com).

He also serves as a member of the Global Future Council on Advanced Manufacturing and Production of the World Economics Forum (WEF) as well as a member of Board of Governors of the Manufacturing Executive Leadership Council of National Association of Manufacturers (NAM) to engage the global leaders for the development of collaborative activities in smart manufacturing.

Previously, he served as senior advisor to McKinsey & Company. Prior to his academic career, he served as Director for Product Development and Manufacturing at United Technologies Research Center (UTRC) as well as Program Directors for a number of programs at NSF. He was selected as 30 Visionaries in Smart Manufacturing in by SME in Jan. 2016 and 20 most influential professors in Smart Manufacturing in June 2020. His new book on Industrial AI was published by Springer in 2020.

For publication citation and impacts, see
- Google Scholar https://scholar.google.com/citations?user=g9GtqgQAAAAJ&hl=en&oi=ao
- ResearchGate https://www.researchgate.net/profile/Jay_Lee10

09:40 am, Tuesday, September 14 Keynote Speaker III: – Zoom Meeting Room 1

Prof. George Q. Huang
Chair Professor of Industrial and Systems Engineering
Head of Department
Director of HKU-ZIRI Laboratory of Physical Internet
Department of Industrial and Manufacturing Systems Engineering
The University of Hong Kong, Hong Kong, China

Prof. George G.Q. Huang is Chair Professor and Head of Department in Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong. He gained his BEng and PhD in Mechanical Engineering from Southeast University (China) and Cardiff University (UK) respectively. He has conducted research projects in the field of Physical Internet (Internet of Things) for Manufacturing and Logistics with substantial government and industrial grants. He has published extensively including over two hundred refereed journal papers in addition to over 200 conference papers and ten monographs, edited reference books and conference proceedings. His research works have been widely cited in the relevant field. He serves as associate editors and editorial members for several international journals. He is a Chartered Engineer (CEng), a fellow of ASME, HKIE, IET and CILT, and member of IIE.
Prof. George G.Q. Huang has been serving on editorial boards of a number of international journals. He is Editor for Asia Pacific for International Journal of Computer Integrated Manufacturing, Associate Editor of International Journal of Production Research, Area Editor for Business & Management for International Journal of Research in Engineering Design, and Associate Editor for Journal of Intelligent Manufacturing.

Prof. George G.Q. Huang received 2014 First-Class Guangdong Province (Department of Science and Technology) on “Mass-Customized Design and Production System”, 2007 First-Class Natural Science Award from Chinese Ministry of Education on “Service-oriented manufacturing execution in extended enterprises”, 2007 Outstanding Young Researcher Award (Overseas) from Natural Science Foundation of China and 2001 The University of Hong Kong Outstanding Young Researcher Award.

10:20 am – BREAK

10:40 am, Tuesday, September 14 – Keynote Speaker IV: – Zoom Meeting Room 1

**Dr. Robert de Souza**
The Executive Director
The Logistics Institute – Asia Pacific (TLI – Asia Pacific)
National University of Singapore, Singapore City, 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.

11:20 am, Tuesday, September 14 – Keynote Speaker V: – Zoom Meeting Room 1

**Harry Kasuma (Kiwi) Aliwarga**
Chief Executive Officer and Co-Owner
UMG Myanmar
Karet Kuningan Jakarta, Indonesia

Harry Kasuma (Kiwi) Aliwargais chief executive officer and co-owner of UMG Myanmar, one of the country’s leading business conglomerates. Born in Jakarta, Indonesia, Mr. Aliwarga graduated from the Institute of Technology of Indonesia (ITI) in 1992 with a degree in industrial engineering and later received a master’s degree in civil engineering at the Asia Institute of Technology in Thailand. Kiwi Aliwarga began his professional career in the business development division at Astra International, one of Indonesia’s largest traded companies, where he worked from 1992 to 1995. He went on to become business development manager at United Tractors–Indonesia (UT) before founding UMG Myanmar in 1998 with his partner MarLar Win. Mr. Aliwarga has set the ambitious goal of making UMG a billion-dollar company by 2020, by relying on three essential pillars: people, leadership, and the relentless pursuit of excellence.

Day 3 – September 15 (Wednesday)

8:00 am, Tuesday, September 14 – Conference Co-Chair Remarks – Zoom Meeting Rooms 1

8:20 am, Wednesday, September 15 – Opening Keynote – Zoom Meeting Rooms 1

**Ahad Ali, Ph.D.**
Associate Professor
Director, Bachelor of Science in Industrial Engineering
Director, Master of Science in Industrial Engineering
Director, Graduate Certificate in Lean Six Sigma
Director, Smart Manufacturing and Lean Systems Research Group
Coordinator, Siemens Electro-Matic Industrial Engineering Lab
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University
Southfield, Michigan, MI 48075, USA
Executive Director – IEOM Society International

Ahad Ali is an Associate Professor and Director of Industrial Engineering Program and Director of Smart Manufacturing and Lean Systems Research Group, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering at the Lawrence Technological University, Southfield, Michigan, USA. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in
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 Program at 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).

11:20 am, Wednesday, September 15 – **Keynote Speaker X:** – Zoom Meeting Room 1

**Anicia Peters, PhD**
Pro-Vice Chancellor: Research, Innovation and Development, University of Namibia
Chairperson: Namibia Presidential Task Force on the Fourth Industrial Revolution
Deputy Chairperson: Namibia Qualifications Authority (Namibia)
Council member: National Council for Higher Education in Namibia
President: Windhoek ACM SIGCHI local chapter

Anicia Peters is the Pro-Vice Chancellor for Research, Innovation and Development and an Associate Professor of Human Computer Interaction at the University of Namibia. She was also appointed in July 2021 by the President of Namibia as the Chairperson of the 4IR Task Force and has to complete a country assessment and organize the National AI Conference in early 2022. Anicia is further the Technical Programme Committee Chair for ACM CHI 2023 and case studies co-chair for ACM CHI conference 2022. She worked previously at Intuit and Oregon State University in the United States and pursued her PhD at Iowa State University. She was formerly the Executive Dean for the Faculty of Computing and Informatics at the Namibia University of Science and Technology. She is the co-founder of the AfriCHI conference series (Africa Human Computer Systems Conference) and also a co-inventor of the GenderMag method which detects gender inclusiveness issues in software design/development. In June 2021, she initiated an AI Agriculture Start-Up incubation programme at the University of Namibia. She also implemented the Namibia-India Centre of Excellence in IT focusing on Cybersecurity and Big Data and expanding to AI and co-established an Inclusive Collaborative Tech Innovation Hub. Anicia has received a number of accolades for her work in research and social justice. She established 6 student organisations in the United States and in 2015, she received a Presidential White House Award as co-founder of the ISU Woman of Colour Network. She further received among others research merit awards from Boeing, Iowa State University and the Rector’s medal at the Namibia University of Science and Technology; is one of 10 female African rolemodels for Information Technology; received a Next Einstein Advancing Women in STEM award; 2022 IEOM Distinguished Educator award; was a Google scholar and received a 2020 Google AI Inclusion Research Award. In 2019, she was selected as the UNESCO Chair for Gender and Digital Technologies but relinquished it when she left the Namibia University of Science and Technology. Her research focus is social computing, gamification, e-participation such as digital health, gender and e-government. Anicia published over 80 articles.

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**Day 4 – September 16 (Thursday)**

8:00 am, Thursday, September 16 – Conference Co-Chair Remarks – Zoom Meeting Room 1

8:20 am, Thursday, September 16 – **Keynote Speaker XI:** – Zoom Meeting Room 1

**Tom Gaasenbeek**
Founder and CEO, Nexas Networks Inc.
Hamilton, Ontario, Canada

Tom Gaasenbeek is the Founder and CEO of Nexas Networks Inc. and five other companies over the last 29 years. Nexas is a Canadian based high-tech Company that specializes in leading-edge manufacturing connectivity solutions for the shop floor. Since he co-founded Memex Electronics Inc. in 1992, Tom has been the visionary leader, and CTO dedicated to “internetworking” machine tools on the factory floor. Under Tom’s leadership, his engineering teams successfully developed technologies that open closed CNC control architectures (such as Fanuc), and he was installing his embedded IoT solutions in the marketplace already when the term was coined in 1998. Starting as a member of the Open Modular Architecture Controls Group (OMAC) in 1998, Tom led the Global HMI development team from his public company e-Manufacturing Networks, which created the first machine tool XML schema for HMI, OEE and Lean Manufacturing applications in 1999 that is today called MTConnect. Tom has filed patents in the area of Energy Management and Dynamic Computer Assisted Machining (DCAM), authored numerous articles in trade journals Industry 4.0 and IoT areas, and spoken at AI conferences as to its importance in the manufacturing sector. Further, Tom has been a speaker about the adoption of AI and AR on the factory floor as well. In 2018, Mr. Gaasenbeek was named to the Top 50 in North America by Smart Industry Magazine for his co-founding of the widely adopted ANSI standard called “MTConnect”. Tom also authors a blog called “CIM Today” that promotes Computer Integrated Manufacturing, and it has had over 70,000 readers since it started. Also since 2013, Tom has been the Executive Director of the Advanced Technology Think Tank which was founded in 1962. Tom works with McMaster Manufacturing Research Institute in Hamilton and Concordia University in Montreal at the moment.
09:00 am, Thursday, September 16 – **Keynote Speaker XII:** – Zoom Meeting Room 1

**Adil Dalal**  
President & CEO  
Pinnacle Process Solutions, Intl  
Austin, Texas, USA

Adil is an executive leader with 30+ years of experience developing and delivering pioneering, customized enterprise-wide digital solutions across industries in North America, Europe, Asia, Africa, Middle-East and Latin America. He has led over 350 strategic and tactical lean six sigma, digital transformation, leadership development, software development, factory re-layouts and mergers and acquisition programs globally across various industries. Adil has coached global executives and government leaders to enhance the value of human potential, and optimize ROI through enhanced performance of leaders, and individuals. He is also a distinguished global keynote speaker, award-winning author in lean, quality and business optimization, and the recipient of '2014 Global Award for Outstanding contribution to Quality & Leadership'. Adil’s book ‘The 12 Pillars of Project Excellence: A Lean Approach to Improving Project Results’ has won the ASQ Crosby Zero-defect Medal, the Shingo Research & Publication Award, and the Axiom Best Business Book Award. He has also, authored ‘A Legacy Driven Life: Live a Legacy to Leave a Legacy’ and co-authored ASQ’s ‘Lean Bronze Certification Handbook’. Adil has pioneered innovations like Sensei Leadership™, iLean® Technology, iCulture™, The V-Factor™ and Pinnacle Performance Zone™. His mastery has made him a sought after strategic solutions partner, coach, and an executive sensei.

09:40 am, Thursday, September 16 – **Keynote Speaker XIII:** – Zoom Meeting Room 1

**Dr. John Blakemore**  
Adjunct Professor at University of Newcastle  
Blakemore Consulting International  
Sydney, Australia

**Industry 4.0 and its Vision**

Dr. Professor John Blakemore originally completed a part time BSc in Metallurgy while working in the steel industry. Later he won an International Scholarship to study a PhD on the electronic structure of metals and alloys and the effect of nuclear irradiation and hydrogen. He was then employed as a Research Scientist at the Atomic Energy Commission and later Chief Metallurgist (R&D). His team developed numerous world first ideas and processes and also the first advanced quality system for defence purposes in Australia in 1981. Earlier work with his team led and assisted in the successful commercialisation of Zincalume coated steel called Colorbond. He set up his own company in 1982 and then developed and helped commercialise a range of processes including two new galvanizing processes, and a new process for Aluminium filtration. He has successfully improved concrete manufacture plastic extrusion, Aluminium casting, welding operations and structural steel manufacture. He had a wide range of International clients including, Panasonic, Canon, Honda, Speedo, CSIRO, BHP, Alcatel, Duracell, Conexor, Pirelli and others. He wrote the first course in Lean Manufacturing in Australia in 1991, and the first course in Industrial Arts in 1977 and has authored 6 books. He has taught part time at various universities from 1964. His most recent work was leading a team of mathematicians and scientists and engineers successfully prototyping a new scanning device for cervical cancer. He also invented a new surgical procedure to save his own eyesight in 1991. He was the National President of the Australian Manufacturing Society, and has served on numerous boards and is the fellow of numerous professional societies. Currently he is working at the University of Newcastle and assisting a company developing a new tufting process for carpet and researching his next book.

10:20 am – BREAK

10:40 am, Thursday, September 16 – **Keynote Speaker XIV:** – Zoom Meeting Room 1

**Dr. Basuki Rahmad, ST, MT**  
CISA, CISM, CRISC, CDPSE, TOGAF, CITAF, COBIT5-I, CSXF, ITILF, CDCP, CBDA  
CEO PT. Transforma Engineering & Solutions  
Bandung, Indonesia

Basuki Rahmad is the founder of TRANSFORMA, a company with a primary focus on digital transformation, enterprise architecture, IT GRC, IT Security/Assurance; and several startups on IT Solution, Business Analytics, Open Infrastructure and HVAC/Energy Management.

Basuki Rahmad has over 20 years of industry and consulting experience in analyzing the organization digital challenge, architecting the strategy and enterprise architecture, developing an innovative digital operating model and assisting the digital change management. Beside leading his group of companies, Basuki has also been appointed as an IT Advisor in several state-owned enterprises (BUMN) and also a senior consultant at the World Bank. His key experiences include organizing digital transformation in several BUMN holdings and several ministries, including enterprise architecture and IT/data governance related to it.

Basuki Rahmad completed his undergraduate, master's and doctoral education at the School of Electrical and Informatics Engineering, Institut Teknologi Bandung (ITB). Regarding academic activities, he is currently a professional lecturer and researcher at Telkom University.
11:20 am, Thursday, September 16 – Keynote Speaker XV: – Zoom Meeting Room 1

**Dr. Zain Tahboub**

President
MENA College of Management (MCM)
Dubai, UAE

*Engineering and Management: Past, present and Future*

Dr. Zain E A M Tahboub is President of MENA College of Management (MCM), Dubai, UAE. He was the Chief Strategist and Advisor since 2018 for Dubai Aviation City Corporation, in addition to his work for Dubai Aviation Engineering Projects for the last years as Chief Advisor. He has been managing different functions including Research, Knowledge Management, Future Foresight, Innovation, Excellence, Strategy and others. Dr. Tahboub was known for his work with academia, industry and business. He led corporate development program for major organizations, establishment of new entities, putting forward and contributing to national strategies in the fields of aviation, competitiveness, investment, logistics and most of all Dubai Plan 2021. He has established the DAEP Innovation team and more recently advises the new team on Future of Things (Aviation). In academia, he was one of the four founding members of the Industrial Engineering Program at the University of Jordan, led the Engineering Management Master of Science program for 10 years, directed the office for outreach to industry and was the Dean of Majan University College in Oman. Currently, he serves on a number of boards in academia and is still active in establishing new fronts of collaboration in academic research with University of Sharjah UoS, Linköping University in Sweden, American University of Sharjah AUS and British University in Dubai BUId.

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22. Qatar
23. Saudi Arabia
24. Sierra Leone
25. Singapore
26. Spain
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Submissions and Speakers from Countries
25th IEOM Global Engineering Education

DISTINGUISHED SPEAKERS

September 14, Tuesday, 1:00 – 2:40 pm
Global Engineering Education I
Session Chair: Prof. Dr. Syed Ahmad Helmi Syed Hassan

1:00 – 1:20 pm, Tuesday, September 14

Professor Abu Masud, Ph.D., P.E.
Professor Emeritus
Department of Industrial and Manufacturing Engineering
Wichita State University, Kansas, USA

Dr. Abu Masud is a professor of industrial and manufacturing engineering at Wichita State University. He has been named the Boeing Global Engineering Professor at Wichita State University. In this new post, Dr. Masud is expected to advance the College of Engineering’s strategic alliances for global enrichment and experiential learning of students as well as international research collaborations and partnerships. He received Duane and Velma Wallace Outstanding Educator Award from WSU College of Engineering. Previously he was held various positions at Wichita State including associate dean, graduate school (2008-2013), coordinator, college ABET affairs (2006-2008), associate dean, college of engineering (2004-2005), chair, industrial and manufacturing engineering department (1994-2004) and graduate coordinator of IME (1991-94, 1996-98, 2001-2004). Dr. Masud has engaged with various companies and governmental research centers including NASA Langley Research Center, VA, NASA/ASEE Summer Faculty Fellow (1991 and 1992), Boeing, Consulting Analyst, and Kuwai Institute for Scientific Research. He is member of Accreditation Review Council (2011-2014). Dr. Masud published book, book chapters, and numerous journal and conference papers. He is registered Professional Engineer at Kansas State. Dr. Masud is an IIE fellow. He received Ph.D. and M.S. in Industrial Engineering from Kansas State University, and B.S. in Mechanical Engineering from Bangladesh University of Engineering & Technology.

1:20 – 1:40 pm, Tuesday, September 14

Prof. Dr. Syed Ahmad Helmi Syed Hassan
Associate Fellow, Center for Engineering Education (CEE)
Universiti Teknologi Malaysia

Syed Ahmad Helmi is a faculty member at the Faculty of Engineering, Universiti Teknologi Malaysia. He received his Bachelor of Science in Mechanical Engineering from University of Alabama, Master of Engineering in Advanced Manufacturing and PhD in Engineering Education form Universiti Teknologi Malaysia. He is currently a fellow at the Centre for Engineering Education, head of the university’s Research Group in Engineering Education (RGEE), and the coordinator for Future Ready Educator (FREE) for School of Mechanical Engineering. Prior to joining UTM, he worked as a maintenance engineer at INTEL, Malaysia, as a research officer at the Standard and Industrial Research Institute of Malaysia (SIRIM), and as mechanical and industrial engineer at Sime-Darby, Malaysia. His research focuses on Industrial Engineering and Engineering Education. His recent work includes academic change management, complex engineering problems, virtual reality and spatial visualization, manufacturing systems and optimization, supply chain, and system dynamics modelling. Over the years, he has conducted several workshops on Outcomes-Based Education (OBE) particularly in Student Centred Learning (SCL) throughout Malaysian Higher Institutions, and International Institutions such as in Indonesia, Korea, India, China, Turkey, Morocco, Qatar, South Africa, Pakistan, and Afghanistan. Throughout his career he received several awards such as teaching excellent award, excellent service awards, best paper awards, and gold medals in innovative practices in higher education. He has published several books and more than 100 papers in journals and conference proceedings.

1:40 – 2:00 pm, Tuesday, September 14

Prof. Ir. M. Agung Wibowo, MM, M.Sc, Ph.D.
Dean
Faculty of Engineering
Universitas Diponegoro
Semarang, Indonesia

Mochammad Agung Wibowo is a professor in Universitas Diponegoro, Indonesia. He received his Master and PhD in Nottingham University, United Kingdom. He is currently the Dean of Engineering Faculty in Universitas Diponegoro. His academic interest covers Economic Engineering, Construction Law, Construction Management,
Dr. techn. Ir. Sholihin As’ad, M.T.
Dean
Faculty of Engineering
Universitas Sebelas Maret
Surakarta, Indonesia

Sholihin As’ad is an associate professor at Department of Civil Engineering, Faculty of Engineering, Universitas Sebelas Maret (UNS), Indonesia. Currently he is leading his faculty as Dean since 2015 and contributing in many efforts to improve the engineering education in his institution, such as introducing OBE (Outcome Based Education) curriculum, active learnings, international accreditation etc. He also actively engaged with local and international researchers. Before he start his university career in 1997, he worked as civil engineer for several projects in Indonesia under Lembaga Affiliasi Penelitian dan Industri Institut Teknologi Bandung (LAPI ITB) and other private civil engineering consultants. He completed his doctoral education in Faculty of Civil Engineering, University of Innsbruck, Austria in 2006 and collected his bachelor degree in Civil Engineering in 1992 and master degree in Civil Engineering in 1999 both from Institute Technology of Bandung (ITB), Indonesia.

Dr. Neelam Srivastava
IET Institute of Engineering & Technology Lucknow Constituent College of A K T U Lucknow
Ex- Founding Director (REC) | Ex – CPC SPFU, U.P | Senior Member IEEE
Lucknow, Uttar Pradesh, India

Outcome Base Education - Criteria for NBA or NAAC in Indian Institutions

Prof. Neelam Srivastava received the BE degree from M.M.M. Engineering college, Gorakhpur in 1985 and the M.Tech degree from Institute of Technology, BHU Varanasi, India in 1987 and PhD degree in the area of optical communication at Lucknow university, Uttar Pradesh, India in 2004. She has been working at the Institute of Engineering and Technology Lucknow, India for 35 years. She was State Coordinator in TEQIP II an World Bank scheme of MHRD Delhi for UP for about 2 years. She has worked as a Director of Rajkiya Engineering College Kannauj from January 2017 to Jan2020 as founder Director. At present time she is Professor of Institute of Engineering & Technology, Lucknow, A constituent college of AKTU, Lucknow. She is an active member of many professional bodies like IETE, IEEE, IE board of faculty of Engineering and Technology Lucknow. Her research interest includes wireless and optical communication. She is having around 100 papers in various conferences and Journals.

Dr. Laila EL ABBADI
Associate Professor of Industrial Engineering
National School of Applied Sciences (ENSA)
Ibn Tofail University
Kenitra, Morocco

El abbadi Laila received the B.S. degree in industrial engineering from Faculty of Sciences and Technologies (FST), Sidi Mohamed Ben Abdellah University, Fez, Morocco, in 2006; the M.S. degree in industrial management and the Ph.D. degree in computer science, modeling and quality, from Dhar El Mahraz Faculty of Sciences, Fez, Morocco, in 2008 and 2013, respectively.

From 2009 to 2014, she was a part time professor at some Faculties of Sciences in Morocco. Since 2014, she is a Professor of industrial engineering, at the National School of Applied Sciences (ENSA), Ibn Tofail University, Kenitra, Morocco. She is a member of engineering sciences laboratory-Ibn Tofail University and the coordinator of the research team “industry, logistics, analysis and data protection”. Her research interests include, but not limited to the following areas: quality management, lean management and operations management.

September 14, Tuesday, 3:00 -4:40 pm

Global Engineering Education III
Session Chair: Dr. Markus Hartono

3:00 – 3:20 pm, Tuesday, September 14

Ts. Dr. Habibah @ Norehan Haron
Associate Professor
Razak Faculty of Technology and Informatics
Universiti Teknologi Malaysia
Kuala Lumpur, Malaysia

Assoc. Prof. Ts. Dr. Habibah @ Norehan Haron received her B. Eng (Hons) in Manufacturing Engineering from Kingston Polytechnic, UK and MSc degree in Manufacturing Systems Engineering from Warwick University. Later she continues her PhD study in Engineering Education from Universiti Teknologi Malaysia. She is currently an Associate Professor at Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, Kuala Lumpur. She is also a contract lecturer at Meiji University, Japan; and a special program lecturer at Saffat Academy, Sudan. Her areas of research are in Engineering Education, STEM and Engineering Business Management. Her research
and activities have led to publications in books, journals, conference proceedings and articles in the newsletters, and have also qualified her to receive over 20 awards. She has more than 10 intellectual properties. She is also an active committee member of Women Engineers Section (WE) of The Institution of Engineers Malaysia; represented Malaysia for women engineers at the Annual Meeting of Asia Pacific Nation’s (APNN) of International Network of Women Engineers and Scientists (INWES). Apart from her other official duties as an academic staff, she is actively contributing back to the society; organizes community activities for the children of Orang Asli, rural and urban poor. Among the main and consistent projects since 2014, as the founder of Adopt a Kampung team, she had developed and implemented STREAM Fun Learning Toy Libraries, which accommodate various STEM Programs with the holistic and integrated concept of Science, Technology, Religion, Engineering, Arts and Mathematics (STREAM) to remote, rural and urban poor communities in several states in Malaysia.

3:20 – 3:40 pm, Tuesday, September 14

Markus Hartono
Ir., B.Eng., M.Sc., Ph.D., CHFP., IPM., ASEAN Eng.
DEAN, Faculty of Creative Industries
Associate Professor in Industrial Engineering
University of Surabaya
Surabaya, Indonesia
Certified Human Factors Professional
Associate Professional Engineer
ASEAN Engineer
IABEE Evaluator/Observer
Technical Committee Member of IEA (International Ergonomics Association) on Affective Design
Vice President of PEI (Indonesian Ergonomics Society) for Education and Certification Affairs

Markus Hartono is an associate professor in the Department of Industrial Engineering, University of Surabaya (Ubay), Indonesia. He received his Bachelor of Engineering (B.Eng.) in Industrial Engineering from University of Surabaya (Ubay), Indonesia, in 2000. He received his Master of Engineering (M.Eng.) in Industrial Engineering with predominance in Ergonomics from Nanyang Technological University, Singapore (NTU), in 2002. He obtained his PhD degree in 2012 from National University of Singapore (NUS) with the research focus on Affective Design. He has been involved in several research projects focusing on time and motion study, work sampling, Methods Time Measurement (MTM), learning curve and service innovation and quality management. His research interests are in Ergonomics, Kansei Engineering, product design, work and motion measurement, and service quality management. He has published several training/workshop and consultancy works to industries on the topics of time and motion study, work sampling, Methods Time Measurement (MTM), learning curve and Ergonomics. He has published his scientific papers in several top tier (Q1) international journals such as Ergonomics (by Taylor and Francis), International Journal of Industrial Ergonomics (by Elsevier), Total Quality Management and Business Excellence (by Taylor and Francis) and some other reputable journals such as International Journal of Human Factors and Ergonomics (by Inderscience), IEEE Xplore, Procedia Finance and Economics (by Elsevier), International Journal of Services, Economics and Management (by Inderscience) and International Journal of Technology (recently qualified as Q2 journal).

His scientific articles have been cited by more than 620 published scientific papers and showed H-index of 11 (GoogleScholar version), H-index of 6 (Scopus version) and SINTA overall score of 23.32. He is one of the top 10 writers in University of Surabaya. He has acted as a scientific reviewer for the regional and international journals such as International Journal of Industrial Ergonomics (by Elsevier), International Journal of Engineering, Science and Technology, the Journal of Industrial Engineering and Management, and Management Decision (by Taylor and Francis). In addition, he serves as scientific committee for Asian Conference on Ergonomics and Design (ACED), Asia Institute of Industrial Engineering (IIIE), South-east Asia Network of Ergonomics Societies (SEANES), and member of Affective Design Technical Committee of IEA. He is also certified human factors professional with Board of Certification in Professional Ergonomics Inc (BCPE), Willingham, WA, USA, Vice President for Indonesian Ergonomics Society (2015-2018), Chief for Research Collaboration Strengthening of Association of Industrial Engineering Higher Education Administration (BKSTI, 2017-2020) and Council of Asian Conference on Ergonomics and Design (ACED). He has been certified as Associated Professional Engineer (IPM) by the Indonesian Institute of Engineers (PIII) for the period of 2017 – 2022 and Indonesian Accreditation Board for Engineering Education (IABEE) Evaluator/Observer since July 2018. In September 2019, he got the title of ASEAN Engineer (ASEAN Eng.) from The ASEAN Federation of Engineering Organisations (AFSEO).
3:40 – 4:00 pm, Tuesday, September 14

Professor Roger Hadgraft
Professor of Engineering & IT Professional Practice
UTS: University of Technology Sydney
Sydney, New South Wales, Australia

Roger Hadgraft is a civil engineer with 30 years’ experience in transforming engineering education through project-based learning (PBL) and educational technology. He was instrumental in introducing a project-based curriculum in civil engineering at Monash University and in several disciplines at the Royal Melbourne Institute of Technology (RMIT). Roger was an Australian Learning and Teaching Council Discipline Scholar and co-author of the Threshold Learning Outcomes for Engineering and Information Technology, and he has been a member of several national learning and teaching projects. His current role at the University of Technology Sydney is to transform the engineering programs through the integration of studios, student-centred project-based learning.

4:00 – 4:20 pm, Tuesday, September 14

Dr. Aisha Mahmood, Ph.D. Engineering Education
Assistant Professor
Department of STEM Education
Division of Education
University of Education
Township Campus Lahore
Pakistan

Dr. Aisha Mahmood has a unique educational background and diverse professional experience spreading over more than two decades. After completing her PhD in Engineering Education (2015) from Universiti Teknologi Malaysia, she joined Namal College, Mianwali (April 2015-May 2017) as Assistant Professor in the Department of Electrical Engineering. Currently, she is working at the Department of STEM Education in University of Education, Lahore, as Assistant Professor of (Engineering) Education (April 2018 to date). Aisha has also been engaged online as a consultant of “Engineering Education Research & Practice” and as a certified trainer of “TRIZ (Theory of Inventive Problem Solving) Practitioner level 1”. Aisha’s current & future research-cum-practice interests are AI in Education, Big Data in Education, Learning Engineering, Makification, Learning/Instructional Technologies, Social and Emotional Learning, Life Skills, Value-Based Education, Mathematical Thinking, Design Thinking, Inventive Problem Solving (TRIZ), Students/Teachers’ Personas, Blended Learning, Effective Teamwork, Continued Professional Development (CPD) and Change Models.

4:20 – 4:40 pm, Tuesday, September 14

Dr. Indah Widiastuti
Associate Professor
Faculty of Education &Teacher Training
Universitas Sebelas Maret
Surakarta, Indonesia

Assoc. Prof. Indah Widiastuti received her B. Eng in Industrial Engineering from Sepuluh Nopember of Technology and M.Eng degree in Industrial Engineering from Universitas Gadjah Mada. Later she continues her PhD study in Material Engineering from Swinburne University of Technology, Melbourne, Australia. She is currently an Associate Professor at Faculty of Education &Teacher Training, Universitas Sebelas Maret, Surakarta. Her areas of research are in Engineering Education, STEM and Composite Materials. She ventured into University Teaching and research career since 2005 and have published over fifty (50) research articles in peer reviewed local and international Journals and conference proceedings.

September 14, Tuesday, 5:00 – 6:40 pm

Global Engineering Education IV
Session Chair: Dr. Ir. Rahmat Nurcahyo

5:00 – 5:20 pm, September 14, Tuesday

Prof. Ir. Dr. Siti Hawa Hamzah
Director of the Engineering Accreditation Department
Board of Engineers, Malaysia (BEM)
Retired Professor
Department of Civil Engineering
UITM Shah Alam
Malaysia

Ir. Dr. Siti Hawa Hamzah is currently the Director of the Engineering Accreditation Department, Board of Engineers, Malaysia (BEM). She is a retired Professor in Civil and Structural Engineering from UTM Shah Alam. She specializes in load bearing wall panel structures and engineering education. She has been providing extensive trainings on OBE and engineering education. She has provided impactful contributions to Afghanistan, Bangladesh and Qatar on OBE and quality assurance. Awarded with the Hon. MAFO, IEM Woman Engineer and more than 20 research accolades. Siti published 14 books in structural engineering and more than 175 technical papers. She holds bachelor and master degrees; and certificate of education from the USA. She’s a PEPC, FIEIM, MRM and PSWM.

5:20 – 5:40 pm, September 14, Tuesday

IEOM Society International

2nd Asia Pacific Conference
Presentation Title: Enhancing Sustainable Engineering Education And Practice In Developing Countries Through University-Industry Collaboration: A Nigeria Perspective

CN Achebe  
Lecturer and Researcher  
Department of Mechanical Engineering  
University of Nigeria Nsukka  
Enugu State Nigeria

Celestine Nnaemeka Achebe is a lecturer and researcher in the field of Industrial Engineering and Operations Management, Department of Mechanical Engineering, University of Nigeria, Nsukka. He obtained a bachelor’s degree in Metallurgical and Materials Engineering at Nnamdi Azikiwe University, Awka Nigeria and master’s degree in Mechanical Engineering, University of Nigeria where he is currently on doctoral degree programme. He is a COREN registered Engineer. Before embracing university teaching and research career, Engr Achebe worked several years as supervisor at FRSC License Vehicle Number Plate plant, Abuja, and later the Head of Plant, Delta State Plant for several years. He had published works in peer reviewed local and international journals and conference proceedings. His research interests include operations research and operations management, material composite design and processing, and multicomponent alloys. C.N. Achebe is interdisciplinary savvy.

Dr. P.A. Ozor  
Head  
Department of Mechanical Engineering, University of Nigeria Nsukka  
Enugu State Nigeria

Paul Amaechi Ozor is currently the Head, Department of Mechanical Engineering, University of Nigeria Nsukka. He obtained a bachelor’s degree in Mechanical/Production Engineering at Enugu State University of Science and Technology. He later specialized in Industrial Engineering and Management, and obtained both Masters and PhD in the field during 2008 and 2016 respectively. Dr Ozor had been a project manager of a reputable Engineering and Services company in Nigeria for over five years. He ventured into University Teaching and research career since 2009 and have published over sixty (60) research articles in peer reviewed local and international Journals and conference proceedings. Dr Ozor is a scholar of the Association of Commonwealth Universities. He has won and completed the prestigious TWAS-NRF-DST postdoctoral fellowship to the University of Johannesburg, where he is currently a Senior Research Associate. He has visited several countries including Washington DC, USA, Lisbon, Portugal, Shanghai, China, Bangkok, Thailand, Agadir, Morocco, South Africa, etc, on research grounds. Furthermore, He has supervised significant graduate and undergraduate students to successful study completion, and is still supervising local and international students. His research interests include Operations modelling, Quality management, Project Management, Systems Analysis, Asset Management, Environmental influence and Sustainability.

5:40 – 6:00 pm, September 14, Tuesday

Dr. Ahm Shamsuzzoha  
Tenure Track Professor  
University of Vaasa  
Finland

Dr. Ahm Shamsuzzoha received his Master’s degree in Mechanical Engineering, majoring Energy and Environment from University of Strathclyde, UK and Ph.D. in Industrial Management from the University of Vaasa (UVA), Finland. He also received his Teacher’s Pedagogical Qualification (Professional Teacher Education) from Tampere University of Applied Sciences, Finland in 2019. Ahm Shamsuzzoha is working as a Tenure Track Professor, Industrial Systems Analytics, School of Technology and Innovations, University of Vaasa and in the research platform Digital Economy. He has been involved in a leading position in a number of European Union projects and nationally funded projects in Finland. He is currently also involved in several ongoing projects both in European Union level and local projects in Finland. His research interests are mainly focused on supply chain and logistics management, entrepreneurities, innovation management, blockchain, space data, sustainable energy and environment.

6:00 – 6:20 pm, September 14, Tuesday

Dr. Ir. Rahmat Nurcahyo  
Professor, Industrial Engineering Department  
Head of Quality Assurance and Management System Unit  
Faculty of Engineering  
University of Indonesia, Jakarta, Indonesia

Rahmat Nurcahyo is a Professor in Industrial Management, Industrial Engineering Department, Universitas Indonesia. He is now as Head of Quality Assurance and Management System Unit in Faculty of Engineering, Universitas Indonesia. He has responsibility in implementation of OBE Education System and ISO 9001, 14001 and 45001 in Faculty of Engineering, Universitas Indonesia. He earned Bachelor in Mechanical Engineering Department, Universitas Indonesia, Masters in Industrial Management, University of New South Wales, Australia and Doctor in Strategic Management, Universitas Indonesia. His research interests include management systems, quality and maintenance management.

6:20 – 6:40 pm, September 14, Tuesday
John Ezzo
CEO, New Image Building Services Inc.
Troy, Michigan, United States

John S. Ezzo founded New Image Building Services, a full-service facility management company with global headquarters in Michigan with a service footprint throughout the Midwest United States, Qatar and Latin America. The company employs over 1200 people and numerous sub-contractors.

John’s entrepreneurial journey included international expansion to Qatar, the UAE and Latin America. John and his team were directly involved in the opening of two of the largest and most visited facilities in the Middle East including the Dubai Mall and Hamad International Airport. John has participated with the US State Department on trade delegations to the Middle East and an industry trade mission to Brazil.

John holds a bachelor’s degree in business administration from Lawrence Technological University in Southfield, Michigan where he has returned to speak to students on how they may use engineering to solve problems and in doing so create entrepreneurial opportunities.

John has written and been interviewed for numerous articles for industry magazines and books. He has spoken around the North America on topics including public relations, marketing, service diversification and building a management team. John has also spoken for the Department of Homeland Security to the nation’s largest real estate owners on the importance of protecting critical infrastructure from insider threats due to outsourcing of facilities services.

John is proficient in spoken and written Spanish.

6:20 – 6:40 pm, September 14, Tuesday

Azizah Yusof, PhD
Lecturer, Department of Science and Mathematics Education and Creative Multimedia
Universiti Teknologi Malaysia, Johor Bahru, Malaysia
and
Post-Doctoral Fellow, Faculty of Education
Simon Fraser University (SFU)
British Columbia, Canada

Azizah Yusof is currently a research fellow and lecturer in the field of Educational Technology and Assistant Lecturer at Universiti Teknologi Malaysia, Johor Bahru Campus. She holds a Bachelor of Science degree in Computer Science and a Master of Educational Technology from Universiti Teknologi Malaysia. She has taught courses in Computer Network Infrastructure Cabling for engineering students at Universiti Teknologi Malaysia Life-Ready Graduate Initiatives (UTM i-League). She is a certified Microsoft Systems Engineer with over 10 years of experience. She has published several research papers in refereed journals and international conferences related to her area of interest. Her current research interests include Service Learning, Online Learning, Gamification, Generic Skills and Massive Open Online Courses (MOOCs) in Higher Education Institutions (HEI).
Industry Solutions and Industry 4.0 - Distinguished Speakers

Industry 4.0
September 15, Wednesday, 1:00 – 2:40 pm – Zoom Meeting Room 1
Session Chair:

1:00 pm – 1:20 pm, Wednesday, September 15
Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed.
Director, Industrial Engineering Department
Engineering School
University of Costa Rica
San Jose, Costa Rica

Eldon Caldwell is full professor/Cathedraticus of the University of Costa Rica, Central America; member of the IEOM Society Academy of Fellows and member of the IEOM Society Global Council. Also, he has been recognized by the IEOM Society with the “Outstanding Service Award” for his career of over 30 years as an educator, researcher and promoter of development of industrial engineering and as “Distinguished Professor” by IEEE Computer Society, USA.

Dr. Caldwell earned his B.Sc. and Master degree in Industrial Engineering at University of Costa Rica and he earned a Master degree in Service Marketing, as well in Financial Analysis at Interamerican University of Puerto Rico; M.Sc. Health Management Systems at UNED, Costa Rica and a M.Sc. Operations Management at ITESM, México. Finally, he earned three doctoral degrees: 1-Ph.D. in C.Sc. / Industrial Engineering, University of Nevada, USA / Autonomous University of Central America; 2- Ph.D. (Sc.D.) in Robotics and Automation, University of Alicante, Spain; and 3-Ph.D. (Dr. Ed.) in Education at the University of Costa Rica, developing the “Theory of Socio-educational Exergy-Anergy and Entropy”.

He is author of many scientific articles and two books: “Marketing of Social Products & Services”, UCR Publications; and “Lean Manufacturing: Fundamentals and techniques for cycle time reduction”, Kaikaku Ins. Press, USA.

Dr. Caldwell served as Operations Manager at MASECA, CA; Lean Manufacturing Project Manager at Eaton Corp. Costa Rica, General Manager at Quirós & Cla-Bandag Inc. and General Manager at Lean Systems Intit., USA. He has more than 30 years of experience as advisor and consultant in Operations Management, Lean Manufacturing and Lean Logistics at Interamerican Bank for Development, WHO, UN, World Wide Bank, Coca-Cola, Ministry of Health, Costa Rica, Hondaras, Panamá, Costa Rican Institute for Electricity, RTC- Perú, Young Electrical Signs, Nevada, USA, AirCare Inc., Reno, Nevada, Plan International-Honduras, Byoumes Co., DOLE Co. and many others. Currently, Dr. Caldwell is Director of Industrial Engineering Department at Engineering School of University of Costa Rica.

1:20 pm – 1:40 pm, Wednesday, September 15
Adnan Hassan, Ph.D.
Associate Professor – Industrial Engineering
School of Mechanical Engineering
Universiti Teknologi Malaysia
Johor Bahru, MALAYSIA

Adnan Hassan is an Associate Professor in the School of Mechanical Engineering, Universiti Teknologi Malaysia (UTM). He is a Professional Technologist (Ts) registered with the Malaysia Board of Technologist (MBOT). He earned B.Sc. (Hons: Cum Laude) in Industrial Engineering from the University from University of Miami, Florida, U.S.A (1986), M.Sc. in Industrial Measurement Systems from Brunel University London, U.K. (1992), and Ph.D. in Mechanical Engineering from UTM (2002). He was attached to Malaysia Alca, Malaysia Airlines and Petronas Carigall (intern) prior to joining academia in 1989. Dr Adnan was the former Head, Department of Manufacturing and Industrial Engineering, UTM (2006-2009), the founding Chairman, Department of Industrial Engineering, King Abdul Aziz University, Rabigh Branch, Saudi Arabia (2009-2011). Currently, he is the Head for Internal Auditor (Academic Quality) and a member of the Academic Committee, at the School of Mechanical Engineering, UTM. He has supervised about 30 master’s projects and has successfully graduated 6 PhDs research students. His current research interests include pattern recognition for process monitoring, supply chain, maintenance, and performance measure. Dr Adnan is a member of IISE (U.S.A), IET (U.K), IEOM, IEEE and IEM Malaysia. He is an External Programme Assessor for University Kuala Lumpur and an Expert Panel (Academic) for Universiti Malaysia Pahang. He is a member of the assessor panel for the Malaysian Qualification Agency (MQA/LAN) since 2003. Dr. Adnan received the UTM excellence service awards in 2003, 2006, and 2013, and the King Abdulaziz University excellence service award in 2010. He serves as a regular reviewer for several international journals published by Elsevies, Taylor & Francis, and Emerald, and received an Outstanding Reviewer Award from Computer & Industrial Engineering, Elsevier (2017).

1:40 pm – 2:00 pm, Wednesday, September 15

Dr. Fanar Shwedeih
Assistant Professor
Information Technology Management
City University College of Ajman
Dubai, United Arab Emirates

Innovation and Smart City Performance
2:00 pm – 2:20 pm, Wednesday, September 15

Dr. Guilherme Luz Tortorella  
Professor in Industrial Engineering  
University of Melbourne  
Australia

“Integration of Industry 4.0 into Lean Management”

D. Guilherme Tortorella is a Professor in Industrial Engineering at the University of Melbourne, Australia. He has authored more than 140 journal articles, 15 book chapters and 2 books. He is the Editor in Chief of Journal of Lean Systems, and Associate Editor of the Production Journal, and Operations Management Research Journal. Besides his academic experience, he has worked for 12 years in the automotive industry in Brazil, Mexico, Uruguay, the UK and USA, playing key leadership roles such as a Manufacturing and Continuous Improvement Manager.

2:20 pm – 2:40 pm, Wednesday, September 15

Dr. Cyrus Hoseini  
Senior Director of RCM Analytics with AccentCare  
Former V.P. of Quality and Analytics Services with QualMine  
Sacramento, California, USA

Dr. Cyrus Hoseini is a Senior Director of RCM Analytics with AccentCare and a former V.P. of Quality and Analytics Services with QualMine. Dr. Hoseini is an executive and a senior advisor with extensive experience providing I.T., Quality, and Data Analytics services to large-scale projects, especially in health and human services. Cyrus holds a Ph.D. in Technology Management (Quality Systems) from Indiana State University, an MBA, and a Bachelor of Science in Applied Mathematics (Operations Research). He is an ISO 9000 Lead Auditor, a Certified Quality Auditor with more than 20 years of experience applying auditing techniques in various projects. He is a voting member of U.S. TAG to ISO/TC 176 Quality Management and Quality Assurance. Cyrus holds several certificates, including CSSBB, CQA, CMQ/BE, CSQE, PMP, CPHQ, CSIM, CRCR, etc.

Cyrus lives in the Sacramento area, USA.

Lean Six Sigma

September 15, Wednesday, 3:00 pm – 4:40 pm

Session Chair

Ts. Dr. Mehran Doulat  
Associate Researcher & Professor  
MBA Centre  
Xiamen University, Malaysia Campus  
Director of Asia-Pacific Centre for Operational Excellence and Sustainability (SPECTRAL Ent.)  
Editorial Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran is a full-time Professor of Operations Management and Sustainability, also an Associate Researcher at COER, New Zealand. 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. Mehran has completed a 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. He 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 Belgium and New Zealand. He has served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. Mehran has also been actively involved in a number of academic-industrial projects and research in the United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, China and UAE. Mehran is also serving as the editorial board and leading guest editor of special issue for International Journal of Industrial Engineering and Operations Management (IJIEOM), Journal of Industrial Engineering & Management Systems (JIEMS), International Journal of Organizational Business Excellence (JJOBEX), and the Best Practice Improvement Resource. Mehran has been working as a visiting professor and research fellow at University of Wollongong, Australia; National University of Singapore; Meiji University, Japan; Massey University, New Zealand; University of Pune, India; Universiti Teknologi Malaysia; and Xiamen University, China.

3:00 pm – 3:20 pm, Wednesday, September 15

Shrikant Ket  
Engineering Manager  
Eaton  
Pune, Maharashtra, India

Shrikant joined Eaton in 2007 as a Product Engineer in Eaton’s Innovation Center at Pune. He has taken up several roles of increasing responsibilities and was instrumental to build product development capabilities and has successfully launched products. He has overall 16 years of experience in product design & development. He holds a Masters Degree in Mechanical Engineering and Certified Dale Carnegie Train the Trainer. He is Lean Six Sigma Black Belt Certification from ASQ and EQI. Passionate about Continuous Improvement and actively contributes to various CI deployment initiatives. Shrikant is an adventure enthusiast, completed Half Iron distance triathlon (Swim-Cycle-Run), Open water Swimathon (5Km), Ultramarathons (50Km) and recently completed 100Km Oxfam trail walk with family to raise charity and got featured in Times of India and Indian Express News. Shrikant has taken nonprofit social initiative to conduct Communication Skills workshops for students and covered 5K students and aspiring to impact 1M students.
3:20 pm – 3:40 pm, Wednesday, September 15

Eng. Ali Doulatabadi
Founder & Managing Director
D&M Electronics CO. (L.L.C.)
Dubai, United Arab Emirates

Eng. Ali Doulatabadi is Founder and Managing Director of D&M Electronics CO. He is a senior executive leader and an advisor with over 35 years of experience developing and delivering pioneering, customized enterprise-wide solutions globally across various industries in the Middle-East region including UAE. Eng Ali is also a distinguished international expert, award-winning author in international business and the recipient of ‘UAE Award for Outstanding contribution to Leadership’. He holds a Bachelor of Engineering in Electronics majoring in Telecommunications from military academy.

3:40 pm – 4:00 pm, Wednesday, September 15

Dr. Sha’ri Mohd Yusof
Professor - Quality Engineering and Lean System
Graduate School of Business Administration (GSBA)
Meiji University, Tokyo, Japan
Former Dean of Razak Faculty of Technology and Informatics (UTM Razak)
Universiti Teknologi Malaysia
Kuala Lumpur, Malaysia

Dr. Sha’ri Mohd Yusof is now serving as Contract Professor at the Graduate School of Business Administration, Meiji University Japan since April 2020. He retired from UTM with an administrative role as Dean of Razak Faculty of Technology and Informatics (2016-2019) which he led the merging of 3 schools in UTM KL. Prior to joining UTM, Dr Sha’ri worked in Proton during its start up in 1983. He was trained in Mitsubishi Motors Corporation, Mizushima Plant in Okayama rom. Dr Sha’ri has a degree in Industrial Engineering from University of Miami and a Masters of Science in Integrated Quality Systems and Doctor of Philosophy with a focus on TQM for small manufacturing business from the University of Birmingham. He is a Registered Professional Engineer with the Board of Engineers Malaysia (BEM) and a Senior Member of the American Society for Quality (ASQ). Dr Sha’ri has published widely in national, international journals and conferences. He has given keynote addresses in some conferences as well. He has given training to a number of organizations including Proton, IWK, Hitachi Chemical, Mitsubishi in various topics of Quality Engineering, ISO 9001, Industrial Engineering, and Project Management in Malaysia and also for Sudanese engineers. His research areas and interests include Quality Management, Quality Engineering, Robust Quality Engineering / Taguchi Methods, and Toyota Production System / Lean System.

4:00 pm – 4:20 pm, Wednesday, September 15

Dr. Khurram Nawaz
Senior Advisor, Management Systems
Emirates Nuclear Energy Corporation
Abu Dhabi, United Arab Emirates
Director for Canadian Institute of Organizational Excellence (CIOE) Inc
Calgary, Canada

Dr. Khurram is a Director for CIOE Inc., Canada, Ex-Managing Partner for ACTS, Dubai, and Advisor to many organizations with current at Emirates Nuclear Energy Corporation. He possesses over 30 years of experience as an advisor, lead consultant and trainer, lead auditor and lead assessor from diversified industrial sectors such as Service, Manufacturing, Aviation / Airport Services, Banking / Financial, Nuclear, Construction / Contracting / Fabrication, Education and Oil & Gas. His expertise includes Leadership, Corporate Governance, Management Systems including ISOs, TQM, Excellence Models, Strategic Mgmt, Risk Mgmt, Knowledge Mgmt, BCMS, BSC, Benchmarking, Project Mgmt, BPM & BPR, Perception surveys, Service Excellence, Six Sigma & Lean, Performance Improvement teams, Suggestion schemes and various related subjects. Khurram holds PhD from UK, Master of Quality Management, Master’s in applied Geology, 6 Sigma BB and trained in Japan for TQM. He has been adjunct faculty for many universities and trainers for chambers of commerce. Khurram is a recipient of INAX Award for Out-standing Performance (Japan), Best Paper Award (UAE), Out-Standing Quality Manager Award (Pakistan), Fellowship-TQM College (UK), appreciation certificate by the MIAA, Government of Philippines and served as member for board of directors of Middle East Quality Association (MEQA).

4:20 pm – 4:40 pm, Wednesday, September 15

Yun-Chia Liang, Ph.D.
Professor and Chair
Department of Industrial Engineering and Management
Yuan Ze University
Taoyuan, Taiwan

Yun-Chia Liang is currently a Professor and Chair in the Department of Industrial Engineering and Management at Yuan Ze University, Taiwan, R.O.C. Dr. Liang received his first M.S. (Mechanical Engineering, 1996) from Carnegie Mellon University, a second M.S. (Industrial Engineering, 1999) from University of Pittsburgh, and the Ph.D. in Industrial and Systems Engineering from Auburn University (2001). His research interest includes meta-heuristics, production scheduling, reliability engineering, and global logistics.
5:00 pm – 5:20 pm, Wednesday, September 15

Dr. Docki Saraswati, M.Eng, IPU  
Senior Lecturer  
Industrial Engineering Department  
Trisakti University  
Indonesia

Docki Saraswati is a Lecturer at Industrial Engineering Department, Universitas Trisakti, Jakarta, Indonesia. She received her Doctorate and BS from Industrial Engineering and Management, Institut Teknologi Bandung (ITB), Bandung, Indonesia, and her Master degree from Industrial Engineering Department, University of Toronto, Canada. Her current research interest is in remanufacturing operations with focusing on inventory and production systems. She published her paper in International Journal of Advanced Science and Technology, Industrial Engineering & Management Systems and several international proceedings. She also a reviewer for Journal of Modelling in Management and International Journal of Intelligent Enterprise (IJIE). Currently she is in charged as the Director of Quality Assurance Body at Universitas Trisakti.

5:20 pm – 5:40 pm, Wednesday, September 15

Dr. Auditya Purwandini Sutarto, S.T., M.Si.  
Department of Industrial Engineering  
Universitas Qomaruddin Gresik  
Indonesia

Auditya Purwandini Sutarto has completed her bachelor’s study in Industrial Engineering from Institut Teknologi Bandung, Indonesia, master in Mathematics (minor Statistics) from Universitas Gadjah Mada, Indonesia, and Ph.D. in technology management from Universiti Malaysia Pahang, Malaysia. She has been teaching ergonomics, statistics, and research methodology for almost 20 years. She was formerly a lecturer at the Department of Mechanical and Industrial Engineering Universitas Gadjah Mada and Department of Industrial Engineering Universitas Ahmad Dahlan Yogyakarta, Indonesia. She has now been assigned to Department of Industrial Engineering Universitas Qomaruddin Gresik, Indonesia since 2019. She has received research awards at the International Exposition of Research and Invention of Institutions of Higher Learning Ministry of Higher Education Malaysia 2009 and Seoul International Invention Fair 2009 on the use of biofeedback for improving industrial operators’ performance. Her research interests are in the broad area of ergonomics, statistics for behavioral science, and their multidisciplinary of applications. Over the past several years, her research has included topics in psychophysiology, human performance, and well-being. She has been investigating the effect of COVID-19 with a focus on its relationship to telework (work from home) and occupational health.

5:40 pm – 6:00 pm, Wednesday, September 15

Dr. Ir. Ira Setyaningsih, ST., M.Sc., IPM  
Industrial Engineering Department  
Faculty of Science and Engineering,  
Universitas Islam Negeri Sunan Kalijaga  
Indonesia

Ira Setyaningsih is a lecturer at Industrial Engineering Department, UIN Sunan Kalijaga Yogyakarta, Indonesia. She holds a Bachelor in Industrial Engineering, Universitas Gadjah Mada, a Master in Quality and Productivity Improvement, Universiti Kebangsaan Malaysia, and a Ph.D. in Operation Management Universitas Gadjah Mada. Her research interests include innovation, bibliometric study, small-medium enterprise (SME), green manufacturing, and quality management. She has published her works in various seminars.

6:00 pm – 6:20 pm, Wednesday, September 15

Dr. Gajanand Gupta, Ph.D.  
Assistant Professor (Sr.), School of Mechanical Engineering  
Vellore Institute of Technology, Chennai Campus  
Chennai, Tamil Nadu, India

Dr. Gajanand Gupta is Senior Assistant Professor, School of Mechanical Engineering, Vellore Institute of Technology, Chennai, Tamil Nadu, India. He earned B.E. in Mechanical Engineering from University of Rajasthan, India, Masters in Production Engineering from National Institute of Technology, Rourkela, India and Ph.D. in the field of Reliability Centered Maintenance from Birla Institute of Technology & Science, Pilani, Rajasthan, India. Dr. Gupta was an Assistant Professor in Mechanical Engineering, BITS Pilani, Pilani Campus. He has published more than 20 research papers in international journals and conferences. His research interest include Reliability and Maintenance, Risk and Criticality Analysis, Decision making, FMECA, Maintenance Management. Dr. Gupta visited Singapore, Indonesia and Nepal for professional events. He is a reviewer of many international journals. He is a member of Institute of Engineers, India and IEOM society.
Bob Doering, MBA
Quality Engineer
Superior Roll Forming
Quality Engineering Professional
Expert in CorrectSPC for Precision Machining – Trainer, Consultant
Lagrange, Ohio, United States

Bob Doering has been in the quality field for over 20 years. He is currently a quality engineer for an automotive component manufacturing firm, as well as a consultant in SPC, Metrology and Quality Concepts training. He holds associates degrees from Lorain County Community College of Elyria, Ohio and The University of Akron of Akron, Ohio; BA in Business and MBA in Systems Management from Baldwin-Wallace College, Berea, Ohio.

Prof. Leonardo Frizziero
Associate Professor, Department of Industrial Engineering
Alma Mater Studiorum – Università di Bologna, Bologna, Italy

Integration between the Design Methodologies and the Company Organizations

Mechanical Engineer, married, father of three children, in academic field, Leonardo Frizziero promotes scientific topics related to the Design and Methods of Industrial Engineering. Since 2005 in Ferrari Spa he coordinates methods, times and costs of new car projects, as Team Planner. In 2009 he came back to University obtaining the Ph.D. degree; he collaborates with the Design and Methods Research Group of Industrial Engineering becoming Junior Assistant Professor in 2013 at DIN of University of Bologna. He teaches and researches in design fields, participating at various competitive international research projects. In 2018 he is Senior Assistant Professor. Since 2017 he is qualified Associate Professor of Design and Methods of Industrial Engineering and in 2021 he takes up service at DIN. In 2021 he is Seminar Chair in Detroit at Lawrence Tech University, holding a series of “Car Design” lectures. He has been collaborating for some years with the Healthcare Structures applying advanced technologies to diagnostics and preoperative surgical planning. Prior to his academic positions, he held significant responsibilities in the industrial field.

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IEOM Global Supply Chain and Logistics
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Global Business Management Education I
September 16, Thursday, 1:00 – 2:40 pm – Zoom Meeting Room 1
Session Chair:

1:00 pm – 1:20 pm
Assoc. Prof. Ade Irma Susanty, Ph.D.
Dean of School of Communication and Business
Telkom University
Bandung, Indonesia

Ade Irma Susanty, Ph.D is an associate Professor at School of Communication and Business Telkom University. She is a Ph.D holder from Multimedia University Malaysia. Her teaching and interested research area are in Knowledge Management, Human Capital Management, Performance and Compensation Management, and Organization Behavior.

1:20 pm – 1:40 pm, Thursday, September 16
Dr. Ismail Suardi Wekke
Institut Agama Islam Negeri (IAIN)
Sorong, Indonesia
Asosiasi Dosen Insan Cita Indonesia, Indonesia

Implementation Decision Support System on Decision Making in the Organization of Himpunan Mahasiswa Islam

Ismail Suardi Wekke is a lecturer at Postgraduate Program in the Department of Islamic Education, State Islamic Institute (IAIN) Sorong, Indonesia, where he serves as chair of department (2020-2021) Institut Agama Islam negeri (IAIN) Sorong, Indonesia. Ismail was born in the village namely Camba. A village in Maros Regency, South Sulawesi, Indonesia. His areas of interest and research range in various topics, including teaching and learning, sociolinguistics, and multicultural education. Occasionally, he departs on the topic of Bugis, or cultural studies. Moreover, he enjoys his life in Papua on the topic of the island. He graduated from IAIN Alauddin Ujungpandang in Arabic Language Teaching and Learning. His master degree completed in State Islamic High School (STAIN) Malang. Recently, it transformed to Maulana Malik Ibrahim State Islamic University Malang, Indonesia. He earned his doctoral degree from Universiti Kebangsaan Malaysia, in Arabic Education Department. He participated in Summer Course on Globalization, IKMAS Universiti Kebangsaan Malaysia (2006). He has published some books and many articles in ICT in language learning, and Multicultural teaching and learning. This activities gives him chance to receive the 50 top of Indonesian academy on SINTA, 2020. He is a member of EuroSEAS, ADRI, DIS, and ICSEI. He is an editor in chief of Asian Contemporary Education. He also serves as Director of Academic Personnel, manages Mistar Journal and MISTAR: Jurnal Pendidikan. He is an editor in chief of Asian Contemporary Education. One of the recent positions is vice chairman of Center for Scientific Publication, Institute of Health, Majelis Ulama Indonesia.

1:40 pm – 2:00 pm, Thursday, September 16
Dr Muhammad Saad Memon
Assistant Professor
Department OF Industrial Engineering & Management
Mehran University of Engineering & Technology
Jamshoro, Pakistan
President – IEOM Pakistan Chapter

Dr Muhammad Saad Memon is an Assistant Professor of Industrial Engineering at Mehran University of Engineering and Technology in Jamshoro, Pakistan with expertise in the areas of resilient and sustainable supply chain management, uncertain and fuzzy production planning, and multi-criteria decision making. Dr Memon obtained his PhD from The Hanyang University South Korea. Dr Memon Published more than 50 research articles and International reputed journals and conferences. A list of his novel publications includes Group multi-criteria supplier selection using combined grey systems theory and uncertainty theory, Sustainable and Resilient Supply Chain Network Design under Disruption Risks, and Analysis of Traceability Optimization and Shareholder’s Profit for Efficient Supply Chain Operation under Product Recall Crisis. Dr Memon is currently serving as President IEOM Pakistan Chapter. Dr. Memon also honored of listed in Marquis Who’s Who in the World 2015, 32nd Edition.
Dr. Arundhati Guha Thakurta
Ergonomics and Human Factors Specialist
Assistant Professor
SVM's Narsee Monjee College of Management Studies (NMIMS)
School of Design (SOD)
Mumbai, India

Dr. Arundhati Guha Thakurta is an Assistant Professor at the SVM's Narsee Monjee College of Management Studies (NMIMS), School of Design (SOD), Mumbai. For two years, she was an adjunct faculty at ISDI School of Design and Innovation, a curricular collaboration with Parsons School of Design, and at Nirmala Niketan-College of Home Science, Mumbai University. She has currently found her interest in user experience research and also teaching UX/UI in NMIMS-SoD. She is also heading the NMIMS-SoD Research cell to encourage students to publish work as part of the curriculum. She published research papers in international journals and participated in many national and international conferences. She is a Ph.D. in Industrial Engineering from the National Institute of Industrial Engineering (NITIE), Mumbai, with 11 years of experience in the field of Ergonomics and Human Factors. She did her Masters of Science (M.Sc.) in Human Physiology with ergonomics and work physiology specialization from Calcutta University. She has hands-on experience in biomechanical design by providing solutions that allow biological and mechanical systems to function effectively. She is associated with the Indian Ergonomics Society, Humanizing work and work environment (HWWE) conferences, and IEOM Society International. She is a certified reviewer for Emerald-Sustainable Campus Publishers Network, IEOM Conferences, and HWWE Conferences. Her area of interest lies in Design Ergonomics, User Experience Design, and Research, Cognitive Ergonomics, Usability Design, Workplace, and Workstation Design. Her passion is to explore the application of ergonomic design in simplifying our day-to-day life.

Dr. Rekha Prasad
Professor, specialization Quantitative Techniques and Information System
Banaras Hindu University
Varanasi, Uttar Pradesh, India

Prof. Rekha Prasad is a retired professor from Institute of Management Studies (IMS), Banaras Hindu University (BHU). She has done her B.Sc. (Mathematics Hons.) from Indian Institute of Technology, Kharagpur and M.Sc. and Ph.D. in Mathematics from BHU. She joined IMS, BHU in 1987 as a assistant professor. Prior to that she has worked at Women's College, BHU as a temporary assistant professor (teaching Mathematics to undergraduate students), Indian Council of Medical Research as a Research Associate (developing probability distribution for occurrence of various diseases), and IIT Kanpur as a Research Associate in an Indo-US Project entitled "Monsoon". Core area of her competency are Quantitative Techniques, Operations Management, and Management Information Systems. She has done extensive research in the area of Enterprise Resource Planning (ERP) and role of Information System in Relationship Marketing. She has published work both in Management and Mathematics. She has attended and presented papers in National and International Conferences. She has successfully supervised six Research Scholars. She is the life member of Indian Association of Teacher Educators. She was on the Editorial Board of BHU Management Journal at present she is on the Editorial Board of Serbian Journal of Management (ISSN 1452864, 22177159) and VIDUSHI (ISSN 0974 – 6374). She has been Dy. Coordinator, National Franchisees Training Program, which is an initiative under Tripartite MOU signed between BHU, REC (Rural Electrification Corporation), and PUVNL (Purvanchali) and Ministry of Power, Government of India. She has also served as Member of the Central Vigilance Committee (CVC) of Banaras Hindu University.

She has been the Coordinator of the Knowledge Forum, a platform for Research Scholars of Institute of Management Studies and contributed extensively for professional grooming of research scholars and Management Students. She has also been a source of motivation for Scholars in compiling and publishing Kshitish (The Horizon), an eNews Letter of the Institute. At present she is the Program Director of Management Certificate Course, under the Ministry of Education, India, NEAT (National Educational Alliance for Technology), AICTE (All India Council for Technical Education) scheme.

Global Supply Chain and Logistics II
September 16, Thursday, 3:00 pm – 4:40 pm
Session Chair: Dr. Eng. Andi Cakravastia Arisaputra Raja

Dr. Eng. Andi Cakravastia Arisaputra Raja, S.T., M.T.
Associate Professor in Industrial Engineering
Institut Teknologi Bandung (ITB)
Indonesia

Dr. Andi Cakravastia is an Associate Professor in Faculty of Industrial Technology, Bandung Institute of Technology. Dr. Andi Cakravastia has published numerous publications in various international peer-reviewed journals and presented scientific papers across the world. Because of the active association with different societies and academies as well as the contributions, Dr. Andi Cakravastia have been recognized by the subject experts around the world. Dr. Andi Cakravastia clinical research and teaching interests include Supply Chain System Integration, Operation Research and Decision Science. Now, Dr. Andi Cakravastia appointed as Director University Development Bandung Institute of Technology. He is now serving as Vice President APIEMS – Asia Pacific Industrial Engineering and Management Society, Academic & Curriculum Coordinator BKSTI – Coordination Body of Industrial Engineering Higher Education Institution, Academic Coordinator – Institute of Supply Chain and Logistics Indonesia.
Dr Carman K.M. Lee  
Associate Professor  
Industrial and Systems Engineering (ISE) Department,  
The Hong Kong Polytechnic University (PolyU)  
Hong Kong  

Dr. LEE Ka Man is currently an associate professor in the Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong. She is the program leader of BSc(Hons) Enterprise Engineering with Management. She obtained her PhD and BEng degree from The Hong Kong Polytechnic University. Her main research areas include Industrial Engineering, Enterprise Resource Planning (ERP), Logistics and Supply Chain Management, Industrial Internet of Things (IIoT), Wireless Sensor and Actuator Network (WSAN), Cloud Computing and Big Data Analytics. As of now, Dr Lee has published over 130 articles in various international journals and seminars. She was awarded Silver Medal in the 47th International Exhibition of Inventions of Geneva in 2019 and Outstanding Paper Award of Emerald Network Awards in 2019. Dr Lee also serves as the Lab-in-Charge of PolyU’s Cyber-Physical Systems Laboratory.

Dr. Shazia Nauman  
Professor- Riphah School of Business & Management (RSBM)  
Head of the Department- RSBM- Riphah International University, Lahore  
Assistant Dean- Office of Research, Innovation and Commercialization (ORIC)  
Riphah International University, Lahore, Pakistan  

Shazia Nauman is a Professor of Engineering Management and currently heading Riphah school of Business and Management at Riphah International University, Lahore. Further, as Assistant Dean, she holds the Office of Research, Innovation & Commercialization (ORIC) Riphah international university, Lahore She earned Master of Science in Project Management from CASE, Islamabad with achievement of Gold Medal and Ph.D. in Engineering Management (specialization in Project Management) from CASE, Islamabad, with six months research at Eli broad College of Business, Michigan State University, USA. She has 80 and above journal and conference papers publications and one book “Effective Virtual Project Management” to her credit. Dr. Shazia has won funding for two research projects from NRPU, HEC. Her research interests include topics related to Project Management and Engineering Management in the areas of Leadership, Empowerment, Careers and Innovation. Dr. Shazia is a proficient trainer who has conducted a wide range of Management related trainings in Project Management, Organizational Behavior, Strategy Management; HRM, at NGO/corporate level, along with implementing consultancy projects related to Organizational Development. She has successfully supervised 91 students of Masters in dissertation. She has been involved in collaborative research with various academic groups in Prince Sultan University, Saudi Arabia, and University of South Australia, Australia. She has published papers in well reputed journals like International Journal of Project Management, Journal of Project Management, Business Strategy and the Environment, Journal of Construction and Engineering Management, and Journal of Applied Psychology among others.

Dr. Behzad Behdani  
Assistant Professor in Operations Research and Logistics, Supply Chain Thinker and Advisor  
Wageningen University and Research Centre  
The Hague, South Holland, Netherlands

Dr. Marta-Mas Machuca  
Dean of Faculty of Economics and Social Science  
Universitat Internacional de Catalunya  
Barcelona, Spain  

Marta Mas-Machuca has a PhD in Business Administration from the Universitat Politècnica de Catalunya (UPC) in Spain, and graduated with a bachelor’s degree in Business Administration from the University of Navarra (UN) in Spain. She has been accredited as a tenure-track lecturer by the Quality Catalan Agency of the University System (AQU). For 6 years, she was a manager of a business unit for the Altran Group, a consulting company. Since 2013, she has worked as a lecturer in the Department of Economy and Business Organization at the Universitat Internacional de Catalunya in Spain, teaching in strategic management and human resources. From 2017 she is the Dean of the Faculty of Economics and Social Science.

Global Business Management Education  
September 16, Thursday, 5:00 – 6:30 pm  
Session Chair: Numan Arshad

5:00 pm – 5:20 pm, Thursday, September 16  
Khan Mohammad Elya  
Planning Officer  
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH  
Dhaka, Bangladesh
5:20 pm – 5:40 pm, Thursday, September 16

**Dr. Sharafuddin Ahmed Khan**
Assistant Professor
Industrial Engineering & Engineering Management Department
College of Engineering
University of Sharjah
Sharjah, UAE

5:40 pm – 6:00 pm, Thursday, September 16

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

**Digital twin in supply chain management**

Dr. Rajeev Agrawal is Fellow of The Institution of Engineer's (IEI), India. He has more than 20 years of Professional Experience. Dr. Rajeev Agrawal received his M. E. in 2001 from M.N.N.I.T., Allahabad and Ph. D. in 2012 from Birla Institute of Technology, Mesra (Ranchi). He is presently working as Associate Professor in Department of Mechanical engineering M.N.I.T. Jaipur.

His research interest is on Lean Six Sigma, Sustainable Manufacturing, Supply chain Design, Solving real life Operations management related problems, Automation in Manufacturing and reconfigurable manufacturing system. He serves on the editorial board of three international journals and has guest edited special issues in around 8 journal and books. Several SCI Journal and International Conference articles have been credited into his account. He set up a CNC Lab. He has research funding from major funding agencies including ADA, Govt. of India, under NPMASS and IE(I). He has also published book chapters on Industry 4.0, Smart Manufacturing Integration of Process Planning and Scheduling, Smart Actuators, Sustainable Manufacturing and Reconfigurable Assembly Systems etc. with renowned international publishers. He is a recognized reviewer of reputed international SCI Journals and Conferences. He has delivered keynote talks at various platforms of National and international stature including The 3rd European International Conference on IEOM Pilsen, Czech Republic. He is an active member of several dynamic societies and research organisations worldwide. Dr. Rajeev Agrawal has been actively involved in research & development (R&D) activities in engineering space. He is actively involved in bringing industry orientation to the engineering education system in India working with several industries, statutory bodies and other organizations.

Dr. Agrawal provides service to the industries (including SME industries) by sharing his expertise and competence of his experience to diagnose and solve industrial problems objectively in selected areas of industrial engineering, Automation and Automation. Dr. Agrawal research work focuses on Process Improvement initiatives for productivity enhancement. Through Consulting, Workshop & Training, he applies his skills and experience to those components that profoundly affect an organization's performance and provide a direction for growth and success.

One of the objectives of his current research is to address conversion quickly for the production of new product by providing customized flexibility and can be improved, upgraded and reconfigured in response to fluctuating demands for automotive companies situated in India

6:00 pm – 6:20 pm, Thursday, September 16

**Engr. Numan Arshad**
Certified PMP, RMP, ACP PMI-USA
Certified PSP-AACEi
Senior Training Consultant and Visiting Lecturer
Riphah International University, Islamabad

Numan Arshad, a passionate project management (agile & waterfall) practitioner and trainer with engineering background with more than 10 years of project management experience using International project management standards i.e. PMI, PRINCE2, Agile, AACEi TCM and ISO 21500. As project management practitioner, Numan worked on various project management positions on multimillion-dollar projects in Middle East and south Asia, in Oil & Gas Infrastructure development, Real Estate Infrastructure development and Telecommunications.

Numan is an internationally certified project management trainer from various prestigious project management bodies, like PMI-USA, AACEi, ISO and AXELOS. Numan has delivered more than 1500 hours of project management trainings, which include certifications trainings like PMP, PMI-RMP, PMI-ACP, PMI-SP, PRINCE2, ISO 21500 and Primavera P6. In addition, Numan also teaches Agile Project Management as visiting faculty member in various universities based in UK and Australia.
As project management practitioner and trainer, Numan believes that, human potential is unlimited, and therefore, he helps individuals and companies to reach their optimum performance by designing and delivering trainings as per their needs and requirements.

Global Supply Chain and Logistics IV
September 16, Thursday, 6:30 – 8:00 pm
Session Chair: Dr. Aftab Alam

6:30 pm – 6:50 pm, Thursday, September 16

Dr. Bernardo Nugroho Yahya
Full Professor, Data Analytics Program
Industrial & Management Engineering Department
Hankuk University of Foreign Studies
Cheoin-gu, Yongin, Gyeonggi, South Korea

Dr. Bernardo Nugroho Yahya is a Full Professor at the Data Analytics Program of the Industrial & Management Engineering Department, Hankuk University of Foreign Studies, South Korea. His research interests are machine learning, artificial intelligence, data analysis, business process intelligence, process mining, pattern recognition and analysis, business model design and innovation. Dr. Bernardo Nugroho Yahya is the recipient of the grant funded by the Ministry of Education through NRF. He received Ph.D. in Industrial Engineering from Pusan National University, Busan, South Korea, Master of Engineering in Information System Engineering from Dongseo University, Busan, South Korea and Bachelor of Engineering in Industrial Engineering from Petra Christian University, Surabaya, Indonesia.

In the past, Dr. Yahya was in charge as a ERP and Information System Project leader on a multinational company in Surabaya, Indonesia. He is a proactive person and able to work in a team to achieve innovative result on the domain of Business Process Management, Data and Process Intelligence. Dr. Yahya did a lot of research on logistics process especially in a port management system. Currently his research topics have been diverged toward several areas such as Human Behavior Analysis, Future Business Models (Blockchain and Digital Transformation), and Content Recommendation.

6:50 pm – 7:10 pm, Thursday, September 16

Dr. Jorge Antonio Samayoa
Director, Operations Research Institute
Universidad Galileo
Guatemala

Jorge A. Samayoa holds a B.S. in electronics and computer science, a M.S. in operations research, a M.S. in applied mathematics, and a Ph.D. in Industrial Engineering. He has taught courses in several universities in Guatemala and the US and has more than 20 years of involvement in academia. In 2007 he was awarded the prestigious Fulbright-LASPAU scholarship to pursue his master's degree at Texas A&M University and later his Ph.D. at Purdue University, where he developed the Calculus for Decision Systems (a generalized systems theory). Currently he is the director of the Operations Research Institute at Galileo University, where he and his team promote research and applications of Data Science to a wide variety of areas.

7:10 pm – 7:30 pm, Thursday, September 16

Abroon Qazi, Ph.D.
Fellow Society of Actuaries | Chartered Enterprise Risk Analyst
Assistant Professor
Department of Marketing & Information Systems
School of Business Administration (AACSB accredited)
American University of Sharjah
PO Box 26666, Sharjah
United Arab Emirates

7:30 pm – 7:50 pm, Thursday, September 16

Dr. Aftab Alam
Professor of Marketing
Centre of Management Studies
Jamia Millia Islamia
(A Central University, Govt of India)
New Delhi, India

Prof Aftab Alam is a Visiting Professor at CMS Jamia Millia Islamia for Executive MBA Program and Member Advisory Council of Harvard Business Review, USA. He has also served as Dean Faculty of
Commerce and Management at Rama University Kanpur recently, its before he was also Dean FCM at Integral University, Lucknow during (2013-16), and MIMT Greater Noida (2006-2007).

He has obtained his Masters, M. Com and M.Phil. from Aligarh Muslim University and has his MBA from Algappa University, Tamilnadu. In addition, he has his PG Diploma in Travel & Tourism Management from FCI (Aligarh) Ministry of Tourism, Govt. Of India. For his higher education, he has completed his Ph.D. in Business Administration from Atlantic University Honolulu, USA.

He has been Conferred 21st Century Educational Leadership Awards 2018 and recognized as Acclaimed Educator, In addition he has also been conferred as the Distinguished Teacher in Management at MTC Management Excellence Award-2018 ceremony at Bangalore. He is also a recipient of Best Professor in Services Marketing at ICBM Conference Hyderabad on 24 Nov, 2018. Further to seeing his credence in Dec 15, 2018 He was accorded ‘Acclaimed Educator’ and has been awarded by American Leadership Award, 2018.

He has substantial experience of Teaching in the Department of Business Management with specialization of Marketing at leading Business Schools of different Institutes and Universities India in (MDI, Gurgaon, IAMT Ghaziabad, Mangalmay Institute of Management, Asia Pacific Institute of Management, Delhi, BIMTECH, Greater Noida, Bangalore University, Madras University, and King Abdul Aziz University Jeddah.) His overall performance has been well praised thoroughly and have been awarded continuously 5 years “Distinguished Faculty” during his stay in abroad. He is having his credits of several articles /Research papers published in national and international Journals, world-renowned International conferences proceedings etc.
Panel Sessions

Halal Supply Chain Panel
September 14, 2021, Time: 5:00 – 6:45 pm

Chair

Dwi Agustina Kurniawati, M.Eng., Ph.D.
Associate Professor, Industrial Engineering Department
Former Head of Industrial Engineering Department
Head of Faculty Quality System Controller
Faculty of Science and Technology
UIN Sunan Kalijaga, Indonesia

Dwi Agustina Kurniawati, Ph.D. is an Associate Professor in Industrial Engineering, Faculty of Science and Engineering, Universitas Islam Negeri (UIN) Sunan Kalijaga, Indonesia. She finished her bachelor’s degree in Industrial Engineering from Bandung Institute of Technology (ITB), Indonesia in 2003. Then she pursued her master’s degree in Advanced Manufacturing Technology, Universiti Teknologi Malaysia (UTM) in 2006. She got Ph.D degree from Nanyang Technological University (NTU) in 2016, in Systems and Engineering Management, School of Mechanical and Aerospace Engineering, NTU, Singapore. She has published numerous papers, both in journals and proceedings (conferences). She also has reviewed lots of papers in Industrial Engineering area. Her current research is in supply chain, cross-dock warehouse, modelling system, operation research, scheduling and special issue in halal supply chain. She has received many research grants in her research area. Her biography is included in Who’s Who in the World year 2015 and 2018 and Who’s Who in Science and Engineering year 2016 and 2017 by Marquis Publication, USA. She was the former head of Industrial Engineering Laboratory and former head of Industrial Engineering Department. Currently, she becomes the head of Quality System Controller in her faculty and the head of Optimization, Operation Research and Industrial Systems Research Group (2ORIS-RG). She also becomes the member of INFORMS, IEOM and IAENG.

Panelists:

Prof. Suhaiza Zailani
Professor of Supply Chain and Logistics
Faculty of Business and Accountancy
University of Malaya
Kuala Lumpur, Malaysia

Suhaiza Hanim Mohamad Zailani received her MSc and PhD in Management Science from Lancaster University, England, United Kingdom, in 1995 and 1998, respectively. She is a Professor of Supply Chain with the Faculty of Business and Accountancy, Universiti Malaya, and was a Director of the University Malaya Entrepreneurship Centre (UMEC). As a director, she was responsible for identifying attractive opportunities for the graduates to be excelled as an entrepreneur through her excellent industry linkage, both locally and overseas. Under her directorship, her center has been selected as the best 20 entrepreneurship centers in the world for the ACCSB Entrepreneurship Spotlight Challenge. This challenge showcases how AACSB-accredited schools engage with business practice to provide students an opportunity to gain to core skills required to be successful in business whether that business is a start-up or a world-renowned corporation.

Prof. Dr. Marco Tieman
Professor of Supply Chain Management
ELM Graduate School
Help University, Malaysia

Dr. Marco Tieman is a full professor with ELM Graduate School, Help University, in Malaysia. He conducts research in halal procurement, halal supply chain management, and halal risk and reputation management. He teaches the subject Supply Chain Management and Halal Business Management. He won academic awards for his groundbreaking research in halal purchasing and halal supply chain management. He is a member of the Senior Editorial Advisory Board of the Journal of Islamic Marketing (Emerald, United Kingdom) and an Editorial Board Member of the International Journal of Islamic Marketing and Branding (Inderscience Publishers, Switzerland). He is the author of ‘Halal Business Management: A guide to achieving halal excellence’, providing practical advice and guidance how best to organise and upscale halal business operations. Prof. Dr. Marco Tieman is also the founder and Chief Executive Officer of LBB International, a supply chain strategy consultancy and research firm. He has been advisor to businesses and governments in Asia, Europe, and the Middle East. He has a MSc in Industrial Engineering and Management Science from the University of Twente (the Netherlands) and a PhD in Business Management from the Universiti Teknologi MARA (Malaysia).

Prof. Irwandi Jaswir
Research Coordinator at the Halal Industry Research Center
International Islamic University Malaysia (IIUM)
Kuala Lumpur, Malaysia

After completing his PhD, Irwandi joined International Islamic University Malaysia (IIUM) as an academic staff in 2001. Since then, Irwandi has held various administrative post, from Programme Coordinator, Deputy Dean (Students Affairs), and Deputy Dean (Research Initiatives) at Research Management Centre. In 2011, he received his Professorship and currently is appointed as the Director, International Institute for Halal Research and Training (INHART) of IIUM. Irwandi also serves as the Secretary, IIUM Council of Professor. His initial research began with his interest in lipid peroxidation and antioxidative activities of natural products. He then conducted studies on carotenoids and anti-cancer properties he started when he had 2-years fellowship in National Food Research Institute (NFRI), Japan, after receiving a prestigious Japan Society for Promotion of Science (JSPS) award. Currently, he is the principal researcher of 7 research projects, mostly in areas related to Halal Science, Food Biotechnology and Natural Products, funded by various funding agency such as the Ministry of Education (MOE), Ministry of Science, Technology
Prof. Iwan Vanany
Professor, Department of Industrial and Systems Engineering
Institut Teknologi Sepuluh Nopember (ITS)
Surabaya, Indonesia


Dr. Mohamed Syazwan Ab Talib
Assistant Professor of Logistics Management
UBD School of Business and Economics
Universiti Brunei Darussalam
Bandar Seri Begawan, Brunei

Mohamed Syazwan Ab Talib is an Assistant Professor of Logistics Management at the UBD School of Business and Economics, Universiti Brunei Darussalam. He holds a PhD in Management from Universiti Teknologi Malaysia, an MBA from Universiti Selangor and a BBA from Universiti Teknologi MARA. He was a Senior Lecturer in Marketing at Azman Hashim International Business School, Universiti Teknologi Malaysia, and formerly a Lecturer in Logistics Management at the Faculty of Business and Information Science, UCSI University. His research and teaching focus primarily on logistics and supply chain management with specialisation on halal principles, distribution and standards.

Prof. Dr. Ir. Yandra Arkeman, M. Eng
Professor of Agricultural Industrial Technology
IPB University, Bogor, Indonesia

Yandra Arkeman is an expert in Artificial Intelligence (AI) and blockchain technology. He earned a PhD in Manufacturing Systems Engineering with dissertation on Intelligent Manufacturing Systems using Genetic Algorithms from University of South Australia (2000). Then he conducted his first Post Doctoral research at Department of Electrical Engineering and Computer Science, Kansai University, Osaka, Japan, for 2 years (2004-2006) and his second Post Doctoral research at Department of Computer Science, George Mason University, Fairfax, Virginia, USA, for 4 months (2009/2010). His biography is included in Who’s Who in Science and Engineering 1998/1999 by Marquis Publication, USA. He had a Master of Engineering in Advanced Manufacturing Technology from University of South Australia with the thesis on Application of Artificial Intelligence for Flexible Manufacturing Systems Design. He obtained his first degree in Agriindustrial Technology from Bogor Agricultural University (IPB), Indonesia, with the “skripsi” (undergraduate thesis) on CAQ (Computer Aided Quality). He is a Professor at Department of Agriindustrial Technology as well as Department of Computer Science, IPB University. Since 2008, he also works at Surfactant and Bioenergy Research Center (SBRC) at IPB University, as a researcher on bioenergy sustainability and climate change. He was the Head of SBRC in 2019. He is now the Head of Master Program in Agro-Maritime Logistics, Post Graduate School, IPB University. He is also a researcher at Halal Science Center, IPB University. In March 2014, he established a research group, namely CEALS (Center of Excellence for Agriindustrial Logistics and Supply Chain Management). In 2018 he established another research group, namely BRAIN (Blockchain, Robotics and Artificial Intelligence Networks). He is now focusing his research in the areas of applications of AI, blockchain and IoT (Internet of Things) for Agri-food and Bioenergy Logistics and SCM.

Women in Industry and Academia (WIIA) Panel
September 14, 2021, Time: 7:00 – 8:45 pm

Panel Chair

Dr. Lina Gozali
Lecturer, Department of Industrial Engineering
Tarumanagara University
Jakarta, Indonesia

Lina Gozali is a lecturer of Industrial Engineering Department at Universitas Tarumanagara since 2006 and a freelance lecturer at Universitas Trisakti since 1995. She got her Bachelor degree at Trisakti University, Jakarta – Indonesia, then she graduated Master Degree at STIE IBII, Jakarta – Indonesia, and graduated her Ph.D at Universiti Teknologi Malaysia, Kuala Lumpur – Malaysia in 2018. Her apprentice college experience was in paper at Kertas Bekasi Taguh, shoe at PT Jaya Harapan Barutama, automotive chain drive industry at Federal Superior Chain Manufacturing. She teaches Production System and Supply Chain Management Subjects and her Ph.D research about Indonesian Business Incubator. She actively writes for almost 40 publication since 2008 in Industrial Engineering research sector such as: Production Scheduling, Plant Lay Out, Maintenance, Line Balancing, Supply
Tania Endah Budhi, ST, MBA
Senior VP – Head of Marketing Strategy & Customer Experience
PT. Adira Dinamika Multi Finance, Tbk. (ADIRA FINANCE)

Tania Endah Budhi got her Bachelor degree in industrial engineering at Institut Teknologi Bandung in 2002. Then she received APEC Scholarship Award to obtain her Master of Business Administration (MBA) with Marketing and Strategy specialization from Nanyang Technological University (NTU) Singapore in 2006. Her career started in PT. Toyota Astra Motor as Management Trainee in 2003, where she built her experience in Marketing Planning & Customer Relation Division until 2006. Upon completing her MBA, she worked as Business Analyst in FMC Technologies Singapore. She later joined Johnson & Johnson Indonesia - Pharmaceuticals Division in 2008 as Product Manager, where she grew her career in Healthcare Marketing & Sales until the position of Franchise Manager. In 2014, she made a complete career switch by joining Indosatra AirAsia as Head of Ground Operations & Customer Management, reporting directly to CEO. In 2016, she made another career switch by joining Adira Finance as Senior Vice President – Head of Strategic Marketing, overseeing Consumer Marketing & Syariah. Along with the company’s digital transformation initiatives, her role in Adira Finance was expanded to Head of Marketing Strategy & Customer Experience, by adding Customer Experience, Loyalty, Customer Care, and the company’s digital application, Adiraku, into her responsibility.

Dr. Ho Hwi Chie, M.Sc.
Dean
Binus Aso School of Engineering
Bina Nusantara University (Binus)
Tangerang, Banten
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

Panel Speakers

Ms. Dawn Ringrose, MBA, FCMC
Principal, Organizational Excellence Specialists Inc.
Courtenay, British Columbia, Canada
Board Member with the Global Benchmarking Network
Advisory Board Member with the ISCM Foundation
Executive Team Member with the Organizational Excellence Technical Committee QMD-ASQ
Editorial Review Board for Quality and Operational Research (QOR) Newsletter

Dawn is Principle of Organizational Excellence Specialists Inc., Courtenay, Canada. She has earned a Master of Business Administration and Fellow Certified Management Consultant designation. Dawn has consulted to management in areas that positively contribute to organizational performance since 1984. Leveraging a wide range of certifications, practical experience and desire to transfer knowledge to others, she has developed a turnkey toolkit that is designed to make the excellence journey more simple, straightforward, time-efficient and cost-effective. The toolkit includes the Organizational Excellence Framework publication (©2010), Scenario Games, Holistic and Modular Workshops, Automated Assessment and Reporting Tool, Global OE Index, and Train-The-Trainer Program. These tools are currently being used by professionals in over 65 countries and on nation-building projects. Dawn currently serves as: a Board Member with the Global Benchmarking Network, an Executive Team Member with the Organizational Excellence Technical Committee QMD ASQ and an Advisory Board Member with the ISCM Foundation.

Nancy Nouaimeh
Assistant Vice President- Quality, Safety and Performance Excellence
Abela & Co LLC, Dubai, United Arab Emirates
ASQ EMEA Region Director
Advisory Board Member with the ISCM Foundation

Nancy believes in continuous learning and making excellence a habit through a shift in mindset and behavior which leads to culture transformation and aligning everyone in the organization towards the True North. She is a proud mom of two adolescent triathletes, and an advocate of women empowerment and social responsibility. With over 20 years of experience in the food industry, Nancy is a Chartered Business Excellence Professional based in the United Arab Emirates, she holds master’s degrees in TQM, and Agronomic Sciences & Bio-engineering from Belgium. She is also a subject matter expert, senior assessor and judge for national Excellence, Innovation and Quality Professionals Awards. She has expertise in government and business excellence models (EFQM and Shingo Model), government. Her forte is the continuous improvement methodologies (Lean, Kaizen, VSM etc.), CSR, BCM, Innovation Management, Suppliers Management and ISO standards & auditing. In her portfolio, several successful projects related to CSR, process re-engineering, integrated management systems among others. She is founder of XcelliUm Management Consultancy, the first affiliate of the Shingo Institute in the Middle East and Africa. She is currently ASQ Region Director for EMEA and has been awarded with the Testimonial Leadership Award from the American Society for Quality (ASQ) in 2014 for “her valuable contribution in raising ASQ’s profile and the Voice of Quality in UAE” and has been selected one of the Fresh Faces of Quality featured in Quality Progress magazine published by ASQ in November 2016.
Hetty Karunia Tunjungsari, S.E., M.Si.
Management Department
Faculty of Economics
Universitas Tarumanagara
Jakarta, Indonesia

Hetty Karunia Tunjungsari is a lecturer of Management Department of Faculty of Economics, Universitas Tarumanagara, Jakarta, Indonesia. She studied Master of Science in Management Study at Gadjah Mada University, Yogyakarta, Indonesia in 2001. She joined Universitas Tarumanagara at 2003 as a lecturer and starts her academic works in Marketing, especially a Consumer Behaviour Studies and Entrepreneurship. Graduated from Doctoral Degree in Marketing Management from University of Indonesia at 2015, she actively do research in Consumer Behaviour as well as Entrepreneurship until today. Currently, she also become Head of Tarumanagara Center for Entrepreneurial Studies at Institute of Research and Community Engagement, Universitas Tarumanagara.

Trish Wilson
Founder & Director
Global Improvement Network Catalyst
Auckland, New Zealand

Renewable Energy Panel
September 15, 2021, Time: 5:00 – 6:45 pm

Dr. Jafri Mohd Rohani
Senior Lecturer, School of Mechanical Engineering
Faculty of Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Indonesia

Dr. Jafri Bin Mohd Rohani is senior lecturer at School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, Johor. He graduated PhD from Universiti Teknologi Malaysia (UTM) in 2014, obtained his M.Sc (Industrial Systems Engineering) from Ohio University, USA in 1995 and B.Sc (Industrial Engineering), New Mexico State University, USA (1988. He has been teaching at UTM specializing Industrial Engineering courses for more than 30 years. He is now supervising undergraduate and postgraduate students as part of academic responsibilities.

He is very active in journal and conference publications with a total of 23 Indexed Journals and 6 of them from ISI Index Journal. His H-Index is currently stands at 8. He has published 1 research book and 2 book chapters. The total research funding received so far is RM 569,500 with the amount of RM 106,400 as Principal Investigator. With his experience, he actively participated in various Scientific, Technical committees and Conferences. He has been invited as 2 keynote speaker at International Conferences and invited speaker at Universitas Sebelah Maret, Surakarta, Indonesia. He is appointed as Editorial Boards at one local journal and one international journal. He has also being appointed as Technical Committee at various International and Local conferences. He is also appointed as NIOSH expert consultant to assist NIOSH staffs to conduct research and training activities. He is also currently engaged with DOSH, Malaysia to carryout OSHCIM Implementation Project in Construction Industry with a total consultancy services of RM 748,000. He is involve in various committee at School of Mechanical Engineering and also become resource person in Occupational and Safety Health at UTM. He is now project coordinator for 2 MOUs with NIOSH Malaysia and Universitas Sebelas Maret, Surakarta, Indonesia.
Panelists

Dr. Dia Milani

Research scientist and team leader
Commonwealth Science and Industrial Research Organization (CSIRO)
New South Wales, Australia

Dr Milani is a research scientist and team leader at the Commonwealth Science and Industrial Research Organization (CSIRO) since 2017. He currently leads a research project titled “A novel platform for highly-integrated solar heat in carbon capture technology” funded by Coal Innovation, Dr Milani is a research scientist and team leader at the Commonwealth Science and Industrial Research Organization (CSIRO). In this project, Dr. Milani and his team raise the bar and propose a novel concept to completely solarise carbon capture technology and move away from the power plant steam cycle.

Prior to this project, Dia was the key researcher working on advanced aqueous Ammonia carbon capture technology pilot plant commissioned and operated by CSIRO at Vales Point power station in Central coast, NSW, Australia. Before joining CSIRO, Dia was the energy team leader and Post-doctoral Research Fellow in LMS at the University of Sydney. He was involved in several research-based projects mostly related to the renewable hybridization in desalination, industrial eco-parks, and supercritical CO2 Brayton power cycles.

Dr. Milani is a research scientist and team leader at the Commonwealth Science and Industrial Research Organization (CSIRO) since 2017. He currently leads a research project titled “A novel platform for highly-integrated solar heat in carbon capture technology” funded by Coal Innovation, Dr Milani is a research scientist and team leader at the Commonwealth Science and Industrial Research Organization (CSIRO). In this project, Dr. Milani and his team raise the bar and propose a novel concept to completely solarise carbon capture technology and move away from the power plant steam cycle.

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Dia was awarded his PhD in Chemical & Biomolecular Engineering from The University of Sydney in 2012. He holds a Master degree in Environmental Engineering Management from the University of Technology, Sydney (UTS) and a Bachelor degree in Mechanical Engineering (Power division) from the University of Aleppo. Dia received several awards during his studies, including member of the Dean’s List at UTS in 2006 for his outstanding academic achievements, the Alexander Hugh Thurburn Scholarship in 2008, and the innovation and enterprise award from the School of Economic and Business at the University of Sydney in 2011.

Associate Professor Ali Abbas ALI ABBAS

Associate Professor Director – Waste Transformation Research Hub
Chair – Australian Circular Economy Conference
School of Chemical and Biomolecular Engineering
Faculty of Engineering and Information Technologies
The University of Sydney
Sydney, NSW, Australia

Associate Professor Ali Abbas is Director of the Waste Transformation Research Hub at the University of Sydney. He has 20 years’ experience in the field of Process Systems Engineering, with expertise in process intensification and design, techno-economic feasibility, process scale-up / optimal operation, with applications in low-emissions technologies, waste, clean energy, biotechnology and biomedical systems. In recent years, Ali has been working on circular economy transitions, identifying ways to translate the circular economy principles into practice. Ali is the Chair of the Australian Circular Economy Conference. Ali provides consultations to industry and Government, and is developing breakthrough deep technologies across multiple industry sectors in his capacity as founding Director of Scimita Ventures Pty Ltd and Trofica Pty Ltd.

Prof. Deendarlianto Aan

Professor
Universitas Gadjah Mada
Indonesia

Experiences
- Universitas Gadjah Mada, 14 years
  - Professor. Full-time, Jan 2021 – Present. 6 months, Yogyakarta, Indonesia – Universitas teaching, scientific research in the field of multiphase flow (mechanical engineering), and community service
  - Lecturer, 2007 – Jan 2021. 14 years – Research and teaching in the field Multiphase Flow and Computational Fluid Dynamics
  - Director, Centre of Energy Studies, Gadjah Mada University, Jan 2013 – Present. 8 years 6 months – Pusat Studi Energi UGM, Yogyakarta
  - Research Fellow, Forschungszentrum Dresden-Rossendorf, Jul 2009 – Jun 2011. 2 years – Conducted the experiment and CFD modelling on the occurrence of counter-current flow limitations (CCFL) in a Pressurized Water Reactor (PWR)

Education
- The University of Tokushima, PhD, Multiphase Flow, Mechanical Engineering, 2013 – 2006 – Activities and Societies: Head of The Association of Indonesian Students at Tokushima
- The University of Tokushima, Master of Engineering (M.Eng.), Mechanical Engineering, 2001 – 2003

Dr. Budi Hartono

Associate Professor and the head of the Mechanical & Industrial Engineering Department
Faculty of Engineering
Universitas Gadjah Mada (UGM)
Indonesia

Dr. Budi Hartono is an associate professor and the head of the Mechanical & Industrial Engineering Department, Faculty of Engineering, Universitas Gadjah Mada (UGM). He received his Ph.D. from the Industrial & Systems Engineering Department, National University of Singapore (NUS), with the NUS and AUN-SEED joint scholarship program. Dr. Budi Hartono is the Chair of the Gadjah Mada Project Management Research Group (Gama-Pro) and a former director of the Project Management Institute Indonesia, Yogyakarta Branch.

Dr. Hartono’s research interests include project management, risk and complexity analysis, cognitive ergonomics, and systems approach.
Dr. Nguyen Duc Tuyen
Lecturer
Department of Power System, Electrical Engineering School
Hanoi University of Science and Technology
Vietnam

Dr. Nguyen Duc Tuyen received the Undergraduate Degree in Electrical Engineering at Hanoi University of Science and Technology in 2006, the Master Degree in 2009, and Ph.D. in 2012 at Shibaura Institute of Technology, Tokyo, Japan. From 2012 to 2015, he was also a researcher at Shibaura Institute of Technology, Tokyo, Japan, and a part-time Lecturer at Chiba University and Tokyo Wildlife College, Japan. From 2015 to 2017, he worked at Tokyo University of Science, Japan. From 2017 to 2018, he conducted the research at the National Institute of Industrial Science and Technology, Japan. Since 2018, Dr. Nguyen Duc Tuyen is a lecturer in the Department of Power System, Electrical Engineering School, Hanoi University of Science and Technology. Dr. Tuyen published more than 100 journal and conference papers. He is an active reviewer of IEEE, IET, MDPI, IEEJ, Springer, Elsevier, etc., reviewing hundreds of papers since 2009.

Yugowati Praharsi is an Assistant Professor in Business Management Department at Shipbuilding Institute of Polytechnic Surabaya, East Java, Indonesia. She earned B.Sc. in Mathematics from Satya Wacana Christian University, Indonesia; M.Sc in Electronic Engineering and Computer Science and Ph.D in Industrial and System Engineering from Chung Yuan Christian University, Taiwan. She has published national and international journals and conference papers. Her research interests are in the field of operation research, production system, quality management, and supply chain management.

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.

Rosula Reyes is a Professional Electronics Engineer, an ASEAN Engineer and an Associate Professor at the Department of Electronics, Computer, and Communications Engineering, School of Science and Engineering, Ateneo de Manila University, Quezon City 1108, Philippines.

Rosula Reyes is a Professional Electronics Engineer, an ASEAN Engineer and an Associate Professor at the Department of Electronics, Computer, and Communications Engineering, School of Science and Engineering, Ateneo de Manila University, Quezon City 1108, Philippines.
Ateneo de Manila University. She earned her Bachelor of Science degree in Electronics and Communications Engineering from the University of Santo Tomas, Master of Engineering Education degree with specialization in Computer Engineering from the University of the Philippines, and Doctor of Philosophy in Education degree from the University of Santo Tomas, in Manila, Philippines. She is a recipient of the Leaders in Innovation Fellow from the joint Royal Academy of Engineering in the United Kingdom and the Asian Institute of Management in the Philippines under the Newton Program. Her research involvement in Biomedical Device Instrumentation and Robotics, Embedded Systems, and Control Systems produced several ISI/SCOPUS-indexed publications. She was an Associate Professor at the Department of Electrical Engineering at the University of Santo Tomas. She has a long-time international collaborations with Scuola Superiore Sant'Anna in Pisa, Italy, Chung Yuan Christian University in Taiwan, and the Institut Catholique D'Arts et Metier in France, where she served as research fellow and visiting lecturer. She co-founded and co-managed several start-up companies that are into software and hardware development, design and fabrication of electronic and computer educational equipment, and training centers. Her experience as Chief Executive Officer and Chief Operating Officer in the companies she started and operated earned her as one of the most invited resource speaker on Entrepreneurship for Scientist and Engineers, Technopreneurship, Creativity, Innovations, and Design Thinking, both national and international. She was a three-time President and an active member of the Institute of Electronics Engineers of the Philippines. She is a recipient of the most prestigious Outstanding Professional in the Field of Electronics Engineering awarded by the Professional Regulation Commission, also awarded among the Most Inspiring Women Engineers by the Philippine Technological Center, and awarded Outstanding Mentor by the Semiconductor Association of the Philippines. She also received several meritorious and outstanding awards in Science and Technology from various award-giving organizations and agencies. She is a Member of the Steering Committee of the International Association of Jesuit Engineering Schools, an Assessor of the ASEAN University Network and an active member of IEEC.

Panel Speaker 3

Ronald Sukwadi, PhD.
Associate Professor
Industrial Engineering Department
Dean of Faculty of Engineering
Atma Jaya Catholic University of Indonesia
Indonesia

Ronald Sukwadi, Ph.D., is an associate professor at the Department of Industrial Engineering, Faculty of Engineering, Atma Jaya Catholic University of Indonesia (AJCUI). He graduated Ph.D. in Industrial & Systems Engineering from Chung Yuan Christian University Taiwan (2012), obtained his M.M. (Management) from Diponegoro University Indonesia in 2004, and B.Eng. (Industrial Engineering) Diponegoro University Indonesia (2002). He has been teaching at AJCUI, specializing in Industrial Engineering and MBA courses, for more than 15 years. He has published many national, international journals and conference papers. Now, Ronald Sukwadi, Ph.D. serves as the Dean of the Faculty of Engineering AJCUI (2016-2024). His research interests include quality management, service innovation, and industrial management.

Professor Hui-Ming Wee
Adjunct Chair Professor
Department of Industrial and Systems Engineering
Chung Yuan Christian University, Taiwan

Professor Hui-Ming Wee is an Adjunct Chair Professor in the Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan. He has received his B.S. degree (honors) in Electronic and Electrical Engineering from Strathclyde University (UK), M. Eng. from Asian Institute of Technology (AIT), and Ph.D. in Industrial Engineering from Cleveland State University, Ohio (USA). He has received an excellent research award from the Ministry of Science & Technology, excellent life researcher award, World Class Researcher Award from the Ministry of Education in Indonesia and the Medal for Distinguished Industrial Engineer Award. He has published more than 300 papers SCI & SSCI index papers. His papers have been cited in Google 11,199 times with an H-index of 57. He has trained 40 PhDs and 150 Master students globally, and is the Editor-in-Chief for the Journal of Ubiquitous Computing and Communication Technologies, Guest Editor for Journal of Cloud Computing, on ‘Cloud Information Technologies in Education’ and International Journal of Lean Six Sigma, on ‘How Lean Six Sigma Improve Organizational Resilience post COVID-19’.

National Port Advisor – United Nations ESCAP
Transport Consultant – IFC, World Bank Group
Director – Kinisi Transport Consultant

Hafida Fahmiasari is Hafida is an independent consultant who is currently now engaged in projects as National Port Advisor in The Economic and Social Commission for Asia and the Pacific of United Nations (UN ESCAP) and transport consultant in International Finance Corporation, World Bank Group. Previously she worked in Royal HaskoningDHV as a Maritime Economics Manager and World Bank Jakarta as Maritime Transport Consultant. Her works relate to transport modelling, transport economics, and infrastructure finance. She has been involved in more than 20 significant port master plan and transport investment projects in Asia, Europe, Africa, and Latin America.

She attained Master degree of Transportation, Infrastructure, and Logistics from Technische Universiteit Delft, the Netherlands with a concentration in transport economics and policy. Previously, she finished the dual Bachelors degree of Civil Engineering from Universitas Gadjah Mada in Indonesia and International Civil Engineering Management from Hanzehogeschool Groningen in Netherlands—focused on Indonesia Sea Tollway master-planning. She has published several articles and journals in The Jakarta Post, Construction Plus Asia, IEEEE, and Elsevier. Her articles cover port network modelling, green ports, and youth development in Indonesia. Currently she is building her own transport consultancy firm in Jakarta, Indonesia. She named her own consultancy firm as Kinisi Transport Consultant. She is The Most Outstanding Alumni of LPDP (Indonesia Finance Minister Scholarship) in general category in 2017. Her works in port network design were receiving Best Paper award in Indonesia Development Forum in 2018. The award was given from Ministry of National Development and Planning of Indonesia and Australia Government. The international forum of maritime community also appreciated her writing by giving her Top 5 Best paper for Global Maritime Forum in 2019 and 2020.
Technoprenurship Panel
September 16, 2021, Time: 5:00 – 6:30 pm

Panel Chairs:

**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 Universitas Sebelas Maret (UNS), Surakarta, Indonesia

**Dwi Agustina Kurniawati, M.Eng., Ph.D.**
Associate Professor
Industrial Engineering Department
Former Head of Industrial Engineering Department
Head of Faculty Quality System Controller
Faculty of Science and Technology
UIN Sunan Kalijaga, Indonesia

Panelists:

**Prof. Dr.-Ing. Misri Gozan, M.Tech, IPM**
Chair of the IABEE Executive Committee
Jakarta, Indonesia

Misri Gozan is the Chairman of the Indonesian Accreditation Board for Engineering Education (IABEE) and the Independent Accreditation Institute for Engineering Studies (LAM TEKNIK), which are permanent bodies within the Indonesian Engineers Association (PII). This professor at the Department of Chemical Engineering - Universitas Indonesia has served as Vice President of the Asian Biotechnology Federation (AFOB) for the Indonesian region. He completed his Bachelor of Engineering at the Department of Gas and Petrochemical Engineering (later to become Chemical Engineering) at the Universitas Indonesia in 1993. He obtained his Master of Technology (M.Tech.) in Process and Environmental Engineering from Massey University, Palmerston North, New Zealand, in 1998. In 2004 he completed his Doctoral degree in Ineuer (Dr.-Ing., Cumlaude) at the Faculty of Geology, Forestry and Hydrology, TU Dresden, Germany. He has published 8 engineering books. His research work is published in international articles related to Bioprocess Engineering, especially the extraction and valorization of biomass into high value-added products.

**Dr. Anugerah Widiyanto, B.Sc., M.Eng**
Agency for the Assessment and Application of Technology
Serpong, Indonesia

Santi Novani, S.Si, MT. Ph.D.
Full time Lecturer of SBM ITB
Secretary of Entrepreneurship and Business Incubation, LPIK ITB

Santi Novani received her Bachelor of Science degree on Mathematic from Padjadjaran University, Bandung in 2000. From 2000 to 2008 she worked at private university in Bandung. From 2004 up to 2008 she joints as research assistant of interest group Decision Making and Strategic Negotiation. From 2008 up to now she is a lecturer at School of Business and Management ITB. She earned Master of Engineering from Industrial Engineering and Management Department, ITB in 2005. Her master thesis investigated the development of Adaptive Learning Model of Hypergame in Hierarchical Organization. In 2013, she got Doctoral degree from Tokyo Institute of Technology, Department of Value and Decision Science supervised by Prof. Kyoichi Kijima. Her interest research is in Value Co-creation in Service System using Modeling and Simulation. She has served on the editorial board and as a reviewer for several national and international journals. She has several international journal publications, including in the journal Systems Research and Behavioural Sciences, Springer, Wiley & Son, Journal of the Operational Research Society, International Journal of Entrepreneurship and Small Business, Journal of Service Science and Management. Her research interest is about value co-creation in service systems using modelling and simulation, decision making and negotiation, hypergame and creative problem solving, including entrepreneurship. Currently, she is appointed as Secretary of Entrepreneurship and Business Incubation at the Institute of Innovation and Entrepreneurship.

**Assoc. Prof. Ts. Dr. Noor Azurati Ahmad @ Salleh**
Director of Innovation and Commercialization Centre
Universiti Teknologi Malaysia
Johor, Malaysia
Parallel Sessions

September 13, 2021 (Monday)

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<tr>
<td>8:00 - 9:45 am</td>
<td>Undergraduate Paper Competition</td>
<td>MS Thesis Competition</td>
<td>Simulation Competition</td>
<td>Case Studies</td>
<td>Business Management</td>
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<tr>
<td>10:00 - 11:45 am</td>
<td>Undergraduate Paper Competition</td>
<td>Dissertation Competition</td>
<td>Simulation Competition</td>
<td>Case Studies</td>
<td>Business Management</td>
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<tr>
<td>12:30 - 1:45 pm</td>
<td>Undergraduate Paper Competition</td>
<td>Senior Design Competition</td>
<td>Simulation Competition</td>
<td>COVID-19 Competition</td>
<td>Business Management</td>
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<tr>
<td>2:00 - 3:45 pm</td>
<td>Undergraduate Paper Competition</td>
<td>Senior Design Competition</td>
<td>Data Analytics</td>
<td>Business Management</td>
<td>Manufacturing</td>
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<td>4:00 - 5:45 pm</td>
<td>Undergraduate Research Competition</td>
<td>Poster Presentation (UG)</td>
<td>Business Management</td>
<td>Decision Sciences</td>
<td>Engineering Education</td>
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<td>6:00 - 7:45 pm</td>
<td>Undergraduate Research Competition</td>
<td>Poster Presentation (UG)</td>
<td>SCM Competition</td>
<td>Artificial Intelligence</td>
<td>Business Management</td>
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September 14, 2021 (Tuesday)

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<tr>
<td>8:00 - 6:20 pm</td>
<td>Officially Opening The Conference from UNS Vice Rector</td>
<td>Room 1</td>
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<tr>
<td>8:20 - 9:00 pm</td>
<td>Keynote I (Opening Keynote): Dr. Jessica L. Troncik, Professor, Institute for Data, Systems and Society (IDSS), Massachusetts Institute of Technology, Boston, Massachusetts, USA</td>
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<td>9:00 - 9:40 pm</td>
<td>Keynote II: Dr. Jay Lee, Vice Chairman and Board Member of Foxconn Technology Group, Member of World Economic Forum Global Future Council on Advanced Manufacturing and Production</td>
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<tr>
<td>9:40 - 10:20 pm</td>
<td>Keynote III: Prof. George Q. Huang, Chair Professor of Industrial and Systems Engineering, Head of Department, Director of HKU-ZIRI Laboratory of Physical Internet, Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong Hong Kong, China</td>
<td>Room 1</td>
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<tr>
<td>10:40 - 11:20 pm</td>
<td>Keynote IV: Dr. Robert de Souza, The Executive Director, The Logistics Institute – Asia Pacific (TLI – Asia Pacific), National University of Singapore, Singapore City, Singapore</td>
<td>Room 1</td>
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<tr>
<td>11:20 am – 12:00 pm</td>
<td>Keynote V: Harry Kasuma (Kwi) Aliwarga, Chief Executive Officer and Co-Owner, UMG Myanmar, Karet Kuningan Jakarta, Indonesia</td>
<td>Room 1</td>
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<td>12:00 pm</td>
<td>Lunch Break</td>
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<tr>
<td>1:00 pm</td>
<td>Global Engineering Education I</td>
<td>Business Management</td>
<td>Entrepreneurship and Innovation</td>
<td>Engineering Management and PLM</td>
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<td>3:00 pm</td>
<td>Global Engineering Education II</td>
<td>BM and Construction Management</td>
<td>Entrepreneurship and Innovation</td>
<td>Engineering Economy</td>
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<tr>
<td>5:00 - 6:45 pm</td>
<td>Global Engineering Education III</td>
<td>E-Business and E-Commerce</td>
<td>Entrepreneurship and Innovation</td>
<td>Financial Engineering</td>
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<td>7:00 – 9:00 pm</td>
<td>Women in Industry and Academia (WIIA) Panel</td>
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September 15, 2020 (Wednesday)

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<tr>
<td>8:00 – 8:20 pm</td>
<td>Welcome Address</td>
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<tr>
<td>8:20 – 9:00 pm</td>
<td>Keynote VI: Dr. Ahad Ali, Associate Professor and Director of Industrial Engineering, Lawrence Technological University, MI, USA</td>
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<tr>
<td>9:00 – 9:40 pm</td>
<td>Keynote VII: Dr. Eng. Koichi Murata, Head of Operations &amp; Production Management Laboratory, Professor at the Department of Industrial Engineering and Management, College of Industrial Technology, Nihon University, Japan</td>
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<tr>
<td>9:40 – 10:20 pm</td>
<td>Keynote VIII: Dr. Rajesh Piplani, Associate Professor, The School of Mechanical and Aerospace Engineering, Systems and Engineering Management division, Nanyang Technological University, Singapore</td>
<td>Room 1</td>
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<tr>
<td>10:40 – 11:20 pm</td>
<td>Keynote IX: Bertha Maya Sopha, Ph.D., Associate Professor and Former Director of Industrial Engineering, Universitas Gadjah Mada, Indonesia</td>
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<tr>
<td>11:20 am – 12:00 pm</td>
<td>Keynote X: Prof. Anicia Peters, Pro-Vice Chancellor: Research, Innovation &amp; Development, Human Computer Interaction Researcher, University of Namibia, Windhoek, Khomas, Namibia</td>
<td>Room 1</td>
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<tr>
<td>12:00 pm</td>
<td>Lunch Break</td>
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<tr>
<td>1:00 – 3:00 pm</td>
<td>Industry Solutions and Industry 4.0 - I</td>
<td>Human Factors and Ergonomics</td>
<td>Supply Chain Management</td>
<td>Sustainability in Supply Chain</td>
</tr>
<tr>
<td>3:00 – 5:00 pm</td>
<td>Industry Solutions and Industry 4.0 - II</td>
<td>Sustainability in Supply Chain</td>
<td>Enterprise Operations and Strategies</td>
<td>Energy and reneable Energy</td>
</tr>
<tr>
<td>5:00 – 6:45 pm</td>
<td>Industry Solutions and Industry 4.0 - III</td>
<td>Engineering Education</td>
<td>Human Factors and Ergonomics</td>
<td>Operations Management</td>
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<tr>
<td>7:00 – 9:00 pm</td>
<td>Diversity and Inclusion Panel sponsored by Ford Motor Company</td>
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September 16, 2020 (Thursday)

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<tr>
<td>8:00 – 8:20 pm</td>
<td>Conference Co-Chair Remarks</td>
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<tr>
<td>8:20 – 9:00 pm</td>
<td>Keynote XI: Tom Gaasenbeek, Founder and CEO, Nexus Networks Inc., Hamilton, Ontario, Canada</td>
<td>Room 1</td>
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<tr>
<td>9:00 – 9:40 pm</td>
<td>Keynote XII: Addi Dalal, President &amp; CEO, Pinnacle Process Solutions, Inl, Austin, Texas, USA</td>
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<tr>
<td>9:40 – 10:20 pm</td>
<td>Keynote XII: Dr. John Blakemore, Adjunct Professor at University of Newcastle, Blakemore Consulting International, Sydney, Australia</td>
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<td>10:20 am</td>
<td>Lunch Break</td>
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<tr>
<td>10:40 – 11:20 pm</td>
<td>Keynote XIV: Dr. Basuki Rahmad, ST, MT, CEO, PT. Transforma Engineering &amp; Solutions, Bandung, Java, Indonesia</td>
<td>Room 1</td>
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<tr>
<td>11:20 am – 12:00 pm</td>
<td>Keynote XV: Dr. Zain Tahboub, President, MENA College of Management (MCM), Dubai, UAE</td>
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<tr>
<td>12:00 pm</td>
<td>Lunch Break</td>
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<tr>
<td>1:00 – 3:00 pm</td>
<td>Global Business Management Education I</td>
<td>Occupational Safety and Health OSH</td>
<td>Quality Control and Waste Management</td>
<td>Logistics</td>
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<tr>
<td>3:00 – 5:00 pm</td>
<td>Global Business Management Education II</td>
<td>Total Quality Management (TQM)</td>
<td>Transportation and Traffic</td>
<td>Facilities Planning and Management</td>
</tr>
<tr>
<td>5:00 – 6:30 pm</td>
<td>Global Business Management Education III</td>
<td>Operations Research</td>
<td>Modeling and Simulation</td>
<td>Machine Learning Reliability</td>
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<tr>
<td>6:30 – 8:00 pm</td>
<td>Global Business Management Education IV</td>
<td>Inventory Control and Lean Six Sigma</td>
<td>Technology Management and Technology</td>
<td>Healthcare Systems</td>
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8:00 – 10:00 pm | Conference Awards Ceremony and Competition Winners Recognition – Virtual |

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<tr>
<th>Session Chair: Judging Team</th>
<th>Undergraduate Student Paper Competition</th>
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<tbody>
<tr>
<td>ID 025</td>
<td>Analyzing Social Media Marketing Strategies of Indonesian E-commerce using Text Mining Techniques</td>
<td></td>
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<tr>
<td>Raretha Maren, Aisyah Larasati, Industrial Engineering Department, State University of Malang, Malang, Indonesia, Retno Wulandari, Mechanical Engineering Department, State University of Malang, Malang, Indonesia</td>
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<tr>
<td>ID 091</td>
<td>Line Balancing in Assembly Line Automotive Carrosserie (Body of a Car) Production Process at PT. XYZ</td>
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<tr>
<td>Melvinia Novita Pratama and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia</td>
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<tr>
<td>ID 104</td>
<td>Diet Optimization Using Linear Programming to Develop Low Cost with Sufficient Nutrients Meal Plan for the 10 day Feeding Program</td>
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<tr>
<td>John Raphael G. Cainglet, Danielle Anne Mae C. Lavapie, and Jhersy Joy B. Sacdalan, La Consolacion University Philippines, Malolos City of Bulacan</td>
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<tr>
<td>ID 161</td>
<td>Fintech: New Era in Banking Industry</td>
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<td>Felix Fernando, Christiana Farah Dharmastuti, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia</td>
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<tr>
<td>ID 173</td>
<td>Developing Strategies for Improving Overall Equipment Effectiveness (OEE) Using Failure Mode And Effects Analysis (FMEA) And Fuzzy Analytical Hierarcy Process (FAHP)</td>
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<tr>
<td>Imam Sya'roni and Dwi Agustina Kurniawati, Industrial Engineering Department, Faculty of Science and Engineering, Sunan Kalijaga State Islamic University, Yogyakarta, Indonesia</td>
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<tr>
<td>ID 235</td>
<td>The Use of Grey Failure Mode and Effect Analysis to Improve Production Quality in Textile Company</td>
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<tr>
<td>Muhammad Zulfikar, Irine Indriana Wati, and Ira Setyaningsih, Industrial Engineering Department, UIN Sunan Kalijaga Yogyakarta, Yogyakarta, Indonesia</td>
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<tr>
<td>ID 707</td>
<td>Analysis and Design of Precast Concrete Product Quality Improvement at PT. XYZ using the DMAIC and FMEA Method</td>
<td></td>
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<tr>
<td>Sakinah, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia, Wahyudi Sutopo, Professor, Department of Industrial Engineering, Faculty of Science and Engineering, Universitas Sebelas Maret, Surakarta, Indonesia</td>
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<tr>
<th>Session Chair: Judging Team</th>
<th>Master Thesis Competition</th>
<th>Room 2</th>
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<tr>
<td>ID 023</td>
<td>A Field Study of Thermal Comfort in Indoor and Semi-Outdoor in Oil and Gas Company Semarang Indonesia</td>
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<tr>
<td>Ega Rizkiyah, Heru Prastawa, Ratna Purwaningsih, Novie Susanto, Manik Mahachandra, Faculty of Engineering, Diponegoro University, Semarang, Indonesia, Faculty of Public Health, Diponegoro University, Semarang, Indonesia, Daru Lestantyo, Faculty of Public Health, Diponegoro University, Semarang, Indonesia, Wiwik Budiawan, Department of Architecture and Civil Engineering, Toyoohashi University of Technology, Japan</td>
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<tr>
<td>ID 053</td>
<td>Integration of Supply Chain Network Design Models and Payment Options for Evaluation Commercialization of Batik Wastewater Treatment Equipment</td>
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<tr>
<td>Nasyita Vivi Amalia, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia, Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia, Bobby Kurniawan, Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Laboratory of Mechatronics and System Designing, Indonesia</td>
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<tr>
<td>ID 055</td>
<td>Integration of The Supply Chain Network Design and Warehouse Receipt System to Improve the Feasibility of a Cathode Material Factory: A Case Study at Pati Regency</td>
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<tr>
<td>Suryati, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia, Department of Trade and Industry, Government of Pati Regency, Central Java Province, Jl. Raya Pati-Kudus No.Km. 4, Margorejo, Kec. Margorejo, Kabupaten Pati, Jawa Tengah 59163, Indonesia, Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia, Bobby Kurniawan, Departement of Industrial Engineering, Universitas Sultan Ageng Tirtayasa 2, Laboratory of Mechatronics and System Modeling, Indonesia</td>
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<tr>
<td>ID 214</td>
<td>Designing Simulation-based Digital Twin for Smart Warehouse: An Asset Administration Shell Framework</td>
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<tr>
<td>Zakka Ugh Rizqi and Shuo-Yan Chou, Department of Industrial Management, National Taiwan University of Science and Technology, No. 43, Section 4, Keelung Rd., Taipei 10607, Taiwan, ROC</td>
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</table>
ID 394  Lean Six Sigma DMAIC Implementation to reduce Total Lead Time Internal Supply Chain Process
Deri Maryadi, Student, Master of Industrial Engineering, Faculty of Engineering, Universitas Mercu Buana Jakarta, Jakarta, Indonesia
Boniviasius Prasetya Ichtiarto, Lecturer, Master of Industrial Engineering, Faculty of Engineering, Universitas Mercu Buana Jakarta, Jakarta, Indonesia

ID 422  Hub Location Problem Model to Determine the Location of Facilities by Considering Capacity and Routes
Virda Hersy Lutiviana Saputi, Master Program in Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta 57126, Indonesia, Department of Industrial Engineering, Faculty of Science, Technology, Engineering, and Mathematics, Universitas Mahakarya Asia Yogyakarta 55285, Indonesia
Wahyu Sutoyo and Muhammad Hisjam, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta 57126, Indonesia

ID 501  Analysis of Communication Network Reliability Improvement SCADA Based for Pumping Wells Offshore
Sulistiyadi, Department of Electronic Engineering, University of Diponegoro, Tembalang, Semarang, Central Java of Indonesia

8:00 – 9:45 am, MONDAY    Simulation Competition    Room 3
Session Chair: Judging Team

ID 085  Factory Re-Layout with SLP, CRAFT, CORELAP, Promodel, and FlexSim for Optimization of Material Flow Movement
Aurella Kharisty Tjiaulia, Lina Gazzali, Carla Olyvia Doaly, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 312  Evaluation of Warehouse Operation in Power Plant Company Using Discrete Event Simulation
Ario Saputra, Tri wahyu hidayat, Fitra Lestari, and Muhammad Rizki, Industrial Engineering Department, Science and Technology Faculty Sultan Syarif Kasim State Islamic University, Pekanbaru, Riau 28293, Indonesia

ID 319  Analysis of Queue Simulation in A Post Office Indonesia
Affah Wahyu Ramadanti and Ahmad Dzaki, Student, Industrial Engineering Department, Faculty of Engineering, University of National Development Veteran Jakarta, Indonesia
Akhdan Nidomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, University of National Development Veteran Jakarta, Indonesia
Fitro Lestari, Departement of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 329  Analisis Sistem Antrian Pada Halte Transjakarta Indonesia
Fitro Lestari, Akhdan Nidom, Agusthina, Inez Kusuma, Teknik Industri, Fakultas Teknik, Universitas Pembangunan Nasional Veteran Jakarta Jalan RS Fatmawati, Pondok Labu, Jakarta Selatan

ID 330  ANALYSIS OF SPBU QUE SYSTEM AT POM BENSIN BOGOR REGENCY WITH ARENA SIMULATION MODELING
Angger Nota Abbiyu Sulthan and Nadia Putri Briggita Student, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Akhdan Nidomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Fitro Lestari, Associate Professor, Department of Industrial Engineering, Head of Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 361  Queue System Analysis at Starbucks Stores
Farah Rahmatika and Jasmine Shafa Khairunnisa, Faculty of Engineering, Industrial Engineering, Pembangunan Nasional Veteran Jakarta University, Jalan RS Fatmawati, Pondok Labu, South Jakarta
Akhdan Nidom Nurzaman, Lecturer of Industrial Engineering, Faculty of Engineering, Pembangunan Nasional Veteran Jakarta University, Indonesia, South Jakarta
Fitro Lestari, Associate Professor, Department of Industrial Engineering, Head of Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 368  Analysis of Queue System in E-KTP Making Process at XYZ District

8:00 – 9:45 am, MONDAY    Case Studies    Room 4
Session Chair: Ma. Janice J. Gumasing, Mapua University, Intramuros, Manila, Philippines

ID 002  Managing the Crisis Condition in SMEs: A case study during the Covid-19 in West Java, Indonesia
Iston Dwija Utama, Nur Azmi Karim, Rudy Aryanto, and Dian Kurniawaningrum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung, West Java 40181, Indonesia
Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, West Java 40132, Indonesia

Mohd Amin Khalil, Md Mizanur Rahman, Aminuddin Saat, Mohd Faizal Hasan and Mazlan Abdul Wahid, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), 81310 Johor Bahru, Johor, Malaysia
**ID 201**  Value Proposition Canvas Validation: Measuring Customer Satisfaction of Photography Business  
Kevin Setiawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Christina Wirawan, Department of Industrial Engineering, Maranatha Christian University, Bandung, Indonesia, Gatot, Yudoko, Yuliani Dw Lestari, School of Business Management, Bandung Institute of Technology, Bandung, Indonesia

**ID 278**  Indonesian Industrial Estate Firms Sustainability Conceptual Framework  
Christina Wirawan, Department of Industrial Engineering, Maranatha Christian University, Bandung, Indonesia  
Gatot Yudoko, Yuliani Dw Lestari, School of Business Management, Bandung Institute of Technology, Bandung, Indonesia  

**ID 350**  A Case Study on Educational Level and Gender Differences on Academic Self-Concept of Student  
Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines  
Rocelle S. Calandria, Ella D. Delizo, Ellaine Genesis S. Lera, John Aldrin C. Selda, Karl Christian B. Toledo and David Brian B. Vizmanos, Bachelor of Science in Industrial Engineering, Malayan Colleges Laguna under Mapua Institute Technology at Laguna, Pulo-Diezmo Road, Cabuyao, 4025 Laguna

**ID 503**  Strengthening Local Economy through School Feeding  
Rocelle S. Calandria, Ella D. Delizo, Ellaine Genesis S. Lera, John Aldrin C. Selda, Karl Christian B. Toledo and David Brian B. Vizmanos

**ID 459**  DISTRIBUTION LOGISTICS DESIGN OF HUMANITY (CASE STUDY BPBD DISTRICT KARAWANG)  
Muhammad Sayuti, Anissa Indah Pratiwi, N. Neni Triana, Rosadi, Industrial Engineering, University of Buana Perjuangan Karawang, Jl. HS. Ronggowaluyo Telukjambe Timur Karawang  

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**8:00 – 9:45 am, MONDAY**  
**Business Management**  
**Room 5**  
Session Chair: Satrio Samudro Aji Basuki, Institut Teknologi Sepuluh Nopember, ITS Campus, Keputih-Sukolilo, Surabaya-INDONESIA

**ID 003**  Using Association Rule to Analyze Hypermarket Customer Purchase Patterns  
Ivan Diryana Sudirman, Ronny Samsul Bahri, Iston Dwija Utama, Chynthia Ika Ratnaputi, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung, West Java, 40181, Indonesia

**ID 005**  Using UTAUT-2 Approach to Measure Purchase Intention of Green Product in Emerging Country  
Ivan Diryana Sudirman, Doni Purnama Alamsyah, Okky Rizkia Yustian, Iston Dwija Utama, Mulyani, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia, 40181

**ID 010**  The Components of Strategic Marketing and Its Importance to Achieving Organisational Goals  
M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa  
N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

**ID 011**  The Remuneration of Chief Executive Officers (CEOs) of State-Owned Enterprises as a Current Corporate Governance Issue in Zimbabwe  
M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa  
N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

**ID 029**  Parametric Cost Estimation Model for Li-ion Battery Pack of E-motorcycle Conversion based on Activity Based Costing  
Sofi Desi Susanti, Bachelor 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia  
Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Rina Wiji Astuti, Chief Executive Officer of Start Up Technology PT Batex Energi Mandiri Surakarta, Indonesia

**ID 041**  Cost Estimation Model for Li-ion Battery Pack of E-motorcycle Conversion based on Activity Based Costing  
Sofi Desi Susanti, Bachelor 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia  
Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Rina Wiji Astuti, Chief Executive Officer of Start Up Technology PT Batex Energi Mandiri Surakarta, Indonesia

**ID 043**  Current Development and Issues in Cost Management  
Sofi Desi Susanti, Bachelor 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia  
Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Rina Wiji Astuti, Chief Executive Officer of Start Up Technology PT Batex Energi Mandiri Surakarta, Indonesia
8:00 – 9:45 am, MONDAY  
Business Management  
Room 6

Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 522  
Optimization of Artificial Intelligence in Telecommunication  
Nurhayati Sembiring, Magfhira Ashila Nasution, Andri Gunawan, Bayu Febriliandika, Universitas Sumatera Utara, Medan, Indonesia  
Muhammad Fadli Tanjung, Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia

ID 545  
Sustainability Assessment of Tourism Destination with Multidimensional Scaling Approaches  
Ratna Purwaningsih, Maharani Ratri Windy Sabrina, Susatyo Nugroho WP, Aries Susanty, Departement of Industrial Engineering, Diponegoro University, Semarang, 50275, Indonesia

ID 554  
Designing Performance Measurement System for Animal Feed Company Using Balanced Scorecard and Analytical Hierarchy Process Method  
Deni Dwi Junico and Moses Laksono Singgih, Department of Management Technology, Institutut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 625  
Experimental Design of Baby Food Advertisement in Social Media  
Nia Budi Puspitasari, Zainal Fanani Rosyada and Siauw Jessica Amanda Wijaya, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 647  
Restaurant Business Insights based on Zomato Online Food Marketplace Big Data Scraping  
Erlinda Gilberta Wibawa, Parama Kartika Dewa, Teguh Siwanto, Industrial Engineering Department, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

September 13, 2021 (Monday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, MONDAY  Undergraduate Student Paper Competition  Room 1

Session Chair: Judging Team

ID 293  
Analysis of the Application of E-Procurement as the Efficiency of Surabaya City Government  
Vincentius Edrika, Universitas Surabaya, Indonesia

ID 318  
Analysis of E-Procurement on Auction Fraud in Boyolali Capital Relocation Project  
Elisha Ramadhanti, Universitas Surabaya, Indonesia

ID 323  
Simulation and System Modelling of Motorcycle Service Customer Queue at PT. XYZ  
Hanan Afifah Rachmadini, Claudia Ivana Silorus, Akhmad Niromoz Zaman, Fitra Lestari, Industrial Engineering, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jl. RS. Fatmawati Raya, Pd. Labu, Kec. Cilandak, Jakarta Selatan, Indonesia

ID 325  
Children Oral health Related to the quality of life  
Nara Sutham, Montfort College Secondary Section, Chiangmai, Thailand

ID 344  
Analysis Activity Cycle Diagram (ACD) at MRT Station Setiabudi Astra, South Jakarta in Reducing the Queue of Passengers  
Paulus Exensius; Wendi Juliansyah; Akhmad Niromoz Zaman; and Fitra Lestari, Industrial Engineering Study Program, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jl. Limo Raya No. 80, Limo Subdistrict, Depok City, West Java Province

ID 360  
Analysis of the XYZ Cinema Queue System Using Arena Simulation Software  
Hayati, Mariana Audini, Fitra Lestari, and Akhmad Niromoz Zaman, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Depok, West Java 16514, Indonesia

ID 366  
Analysis of Queue Simulation on Making SKCK at Police Station XYZ With Arena System Modeling  
Fitra Lestari, Akhmad Niromoz Zaman, Ajeng Puspita Sari, Citra Marliyanti, Industrial Engineering Department, Engineering Faculty, Universitas Pembangunan Nasional Veteran, Jakarta 031036, Indonesia
10:00 – 11:45 am, MONDAY  
**Doctoral Dissertation Competition**  
Room 2

Session Chair: Judging Team

**DOCTORAL DISSERTATION COMPETITION**

**ID 286 Capturing Profile of Halal Chicken Meat Slaughterhouse in Indonesia: A Clustering Case Study**
Harwati, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Yogyakarta, Indonesia
Anna Maria Sri Asih, Bertha Maya Sopha, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

**ID 526 The Relationship between Corporate Governance and Financial Performance in the UAE Exchange Market**
Abd Rahman Ahmad, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

**GRADUATE STUDENT PAPER COMPETITION**

**ID 136 Using Local Wisdom Community towards A Healthy Food Industry: A Preliminary Research Of Torbangun Leaves Biscuit**
Donal Nababan, Rizabuana Ismail, Ivana Tiar, Universitas Sumatera Utara, Indonesia

**ID 134 Redesigning Of the Facility Layout in Pt. Ocean Centra Furnindo**
Hubert Wahyudi, Frans Jusuf Daywin, Carla Olyvia Doaly, Lina Gozali, Wilson Kosasih, Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

**ID 717 Research on Reliability of Piston Sealing Ring of Bending Machine based on Markov Chain**
Zhe Zhu, Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

**ID 718 Electric Vehicle Brake Failure Case - Product Reliability Analysis Based on Failure Behavior Model**
Zhe Zhu, Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

10:00 – 11:45 am, MONDAY  
**Simulation Competition**  
Room 3

Session Chair: Judging Team

**ID 372 Analysis of Waiting Time and Worker Utilization on a Gas Station In Indonesia**
Indracapa Bhuwana Dewandaru and Dimas Aditya, Student, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Akhamh Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

**ID 374 Analysis of Queue System Simulation on Bank XYZ with Arena System Modeling**
Ihda Amalina and Bryan Siburian, Student, Department of Industrial Engineering, Faculty of Engineering, National Development University of Veterans Jakarta, Indonesia
Akhamh Nidhomuz Zaman, Lecturer, Department of Industrial Engineering, Faculty of Engineering, National Development University of Veterans Jakarta, Indonesia
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau Islands Province, Indonesia

**ID 377 Developing Simulation Optimization to Minimize Inventory Cost under Uncertain Demand**
Mufida Nur Khasanah and Hayati Mukti Asih, Department of Industrial Engineering, Universitas Ahmad Dahlan, Bantul, Yogyakarta 55191 Indonesia

**ID 383 Analysis of the Queuing System Tap In/ Tap Out at Cawang Station Using Arena System Modeling**
Arya Gilang R., Mira Syehika H., Fitra Lestari, and Akhamh Nidhomuz Zaman, Industrial Engineering Department, Science and Technology Faculty Universitas Pembangunan Nasional Veteran Jakarta, Jl. RS. Fatmawati Raya, Pd. Labu, Kec. Cilandak, Kota Depok, DKI Jakarta 12450, Indonesia

**ID 385 Queue System Analysis in Drive-Thru Swab Test of COVID-19 in a Hospital**
Muhammad Rafli and Muhammad Rafli Lisdiarto, Student, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Akhamh Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau Islands Province, Indonesia

**ID 386 Simulation Analysis of Cashier Service Queue System at a Supermarket Using Arena Simulation**
Stefanus Herigian and Daffa Raditya Wibowo, Student, Industrial Engineering Department, Faculty of Engineering, Veteran National Development, University of Jakarta, Indonesia
Akhamh Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia
ID 392  Process Improvement of COVID-19 Vaccination System by utilizing Queuing Theory and ProModel Simulator on Vaccination Facilities in Metro Manila
Jolly Ann J. Villaflorres, Maria Ziziana A. Llegos, Unique Kate L. Guna, Mary Antonette F. Faminiano, Larianne D. Cruzado, Kyla R. Mendoza, Industrial Engineering Department, Technological Institute of the Philippines – Manila, Philippines
Janina Elyse A. Reyes, Industrial Engineering Department – Adviser, Technological Institute of the Philippines

10:00 – 11:45 am, MONDAY  Case Studies  Room 4
Session Chair: Yorry Franke Simanjuntak, School of Business and Management, Bandung Institute of Technology, Indonesia

ID 353  A Case Study Measuring the Quality of Life of Students: Before and During COVID-19 Pandemic
Ma. Janice J. Gumasing, School of Industrial Engineering and Management Engineering, Mapua University, Intramuros, Manila, Philippines
John Renz P. Dayrit, Dominic C. De Leon, Geo Mari S. Famero, John Paul N. Garcia, Raven L. Granzore, Mapua Institute of Technology at Laguna Malayan Colleges Laguna, Pulo Diezmo Road, Cabuyao, Laguna 4025

ID 354  Effects of Academic Stress on the Academic Performance of Students: A Case Study during Pandemic
Ma. Janice J. Gumasing, School of Industrial Engineering and Management Engineering, Mapua University, Intramuros, Manila, Philippines
Joe-Ghi Aniban, Joshua Miguel Catigum, Danna Leigh Dy, Carl Lauren James Pamanadan, Trina Angela Tolentino, Mapua Institute of Technology at Laguna, Malayan Colleges Laguna, Pulo Diezmo Road, Cabuyao, Laguna 4025, Philippines

ID 456  The Role of Culture in Shaping Behavior of an Entrepreneurial Leader
Mulyani Karmagati, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Hazminah Hasan, Faculty of Technology Management and Technopreneurship, Universiti Teknikal Malaysia Melaka, Malaysia

ID 454  Decision-Making Process to Improve Efficiency and Effectiveness of The Remediation Planning and Implementation Process: a case study of an oil and gas company in Indonesia
Yorry Franke Simanjuntak and Gatot Yudoko School of Business and Management, Bandung Institute of Technology, Indonesia

10:00 – 11:45 am, MONDAY  Business Management  Room 5
Session Chair: Asep Suparman, Faculty of Business Management, Trisakti Logistic & Transportation Institute, Jakarta, Indonesia

ID 087  Analysis of Readiness toward Halal Certification in Sumatera Utara (Case study in Food Manufacturer)
Dini Wahyuni, Ph.D student at Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia
Nazaruddin, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia
Rifdah Hanuun, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia
Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

ID 117  Integrating DMAIC Approach and Lean Six Sigma Concept to Improve Quality and Reducing Waste
Muhammad Faishal, Hayati Mukti Asih, Astaman Zul Ibrahim, Okka Adiyanto, Teknik Industri, Fakultas Teknologi Industri, Universitas Ahmad Dahlan, Yogyakarta, 40002, Indonesia
Muhammad Faishal, Effendi Mohammad, Azrul Azwan Abdul Rahman, Okka Adiyanto, Fakult Kejuruteraan Pembuatan, Universiti Teknikal Malaysia Melaka, Malaysia.

ID 406  Risk Management on Quality Improvement Project: Literature Review and Bibliometric Analysis
Wiwik Sulistyowati, Mokh Suef, Moses Laksono Singgih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia, Industrial Engineering Majoring, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

ID 058  Comparative Analysis of Global Business Strategies on Solar Cell Companies
Gilang Titah Ramadhan, 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, Jl. Ir. Surabaya, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universita, Sebelas Maret, Surakarta, Indonesia

ID 059  Lessons Learned in Developing and Implementing a Global Business Strategy in Outdoor Gear Companies: A Comparative Study
Arga Setas Asmara Sakti, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 060  Global Business Strategy in Electric Car Vehicle Industry: A Comparative Study between Tesla Inc. vs Rivian LLC
Dian Ahmad Pratama Bunyah, 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, Jl. Ir. Sytami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

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ID 061  Technological Innovation and Commercialization of Solar Tracker on Solar Cell: A Comparison Study  
Gilang Titah Ramadhan, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia  
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 063  Analysis of Economic Benefits of Production of Active Ingredients NaNi0,5Ti0,5O2 Sodium Cathode from Salt (Laboratory Scale)  
Ahmad Tito Prabowo, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Muhammad Hisjam, Laboratory 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, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 147  Examining Customer Service Performance in Shipping Company  
Lianna Wijaya and Tiurida Lily Anita, Management Department, Faculty of Binus Online Learning, Hotel Management Department, Faculty of Economy, Bina Nusantara University, Jakarta, Indonesia  
Athea Sarastiani, Service Management, Trisakti University, Jakarta, Indonesia  
Asep Suparman, Faculty of Business Management, Trisakti Logistic & Transportation Institute, Jakarta, Indonesia

10:00 – 11:45 am, MONDAY  
Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 501  PDCA Analysis on Management Administration Information Based on Android in Resik Becik Semarang  
Vania Ayu Rachmadanti, Ratih Setyaningrum, Dwi Nurul Izzhati, Industrial Engineering, Faculty of Engineering, Dian Nuswantoro University, Semarang, Indonesia

ID 549  Efficiency Analysis of Indonesian Schools: A Stochastic Frontier Analysis using OECD PISA 2018 Data  
M. Mujiya Ulhaq, Department of Economics and Management, University of Brescia, Brescia, Italy

ID 550  Quality Comparison for Online Transportation Services Using the Competitive Zone of Tolerance Based Importance-Performance Analysis  
Arfan Bakti, Febby Veronica and Denny Nurkertamanda, Industrial Engineering Department, Diponegoro University, Semarang Indonesia

ID 555  Performance Measurement of Offshore Facility Maintenance Service Provider Using Quality Function Deployment  
Achmad Nanang Zulfikar and Moses Laksono Singgih, Department of Management Technology, Institut Teknologi Sepuluh Nopember (ITS)

ID 556  The Customer Satisfaction Analysis of the Cinema during Covid-19 Pandemic using the Kano Model in Indonesia  
Andreas Emanputra, Kartinasari Auyhkimatir Sekarjati, Indri Susilawati, Department of Industrial Engineering, AKPRIND Institute of Science and Technology, Kalisahak Street No. 28, Special Province of Yogyakarta, 55222, Indonesia

ID 619  Framework of Leadership System in Improving Quality Culture in Indonesian Construction Company to Reduce Construction Failure  
Putri Astie Utami, Rully Andhika Karim, Yusuf Latief, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java 16424, Indonesia

ID 626  Designing Strategies to Anticipate Circular Economy Barriers in Furniture Industry  
Yonathan Pradana Atmaja, Purnawan Adi Wicaksono, Singgho Saptadi, Denny Nurkertamanda, Yusuf Widarto, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang 50277, Indonesia

ID 630  Independent Design of the Legalization Office by Applying Activity-Based Flexible Office Concepts  
Muhammad Fadhil Farras and Hartomo Soewardi, Industrial Engineering Department, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta, Indonesia

September 13, 2021 (Monday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, MONDAY  
Session Chair: Judging Team

ID 376  Analysis of the Covid-19 Vaccination Queue System at XYZ Hospital Using Discrete Event Simulation  
Fitra Lestari, Clarissa Vadya Azarine, Erika Rahmi, Industrial Engineering Department, Engineering Faculty, Jakarta Veterans National Development University, DKI Jakarta, Indonesia

ID 379  Simulation Modeling To Evaluate The Performance Of Alfamart's Cash Register System With Arena  

ID 381  Djakarta Warehouse Project Music Concert Queue System Analysis with Arena Software
ID 395  Improved Working Posture on “Pencoletan” Process using Rapid Upper Limb Assessment Method  
Agatha Sola Gracia Christy, Adelia Vira Andhini, Sinta Wulandari, Industrial Engineering Major, Faculty of Engineering, Dian Nuswantoro University, Semarang, Indonesia

ID 404  Cost Minimization of Feeds in RGS Hog Farm in the Philippines: An Operation Research Approach  
Jovelyn C. Borlas, Joanne Christine C. Rovedillo, Frances O. Sotto, Ma. Teodora E. Gutierrez, Amiane A. Palisoc, Department of Industrial, Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 431  E-procurement in the Procurement of Goods and Services to Realize Accountability in the City of Yogyakarta  
Inggrid Agustina, Universitas Islam Indonesia

ID 448  Analysis Fluctuation of Stock Price of Mining Companies that Listed on Indonesia Stock Exchange before and After Covid-19 Pandemic  
Zahran Tiasufa Endang Chumaidiyah, Industrial Engineering Department, School of Industrial Engineering, Telkom University, Bandung, Indonesia

ID 253  Determining Promotion Media based on Customer Characteristic using Clustering Analysis and Marketing Mix Strategy  
Mohammad Arsyad Fathurohman, Jihan Afifah, Rahma Fariza, and Annisa Uswatun Khasanah, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia (UII), DI Yogyakarta, Indonesia

12:00 – 1:45 pm, MONDAY  
Senior Design Project Competition  
Room 2

Session Chair: Judging Team

ID 115  Public Facility During Pandemic MULTIFUNCTIONAL DINING TABLE DURING COVID 19  
Thomson Richard, Ferdinand, Sub Han Wijaya, and Anil Nimal, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 142  Planning Business Analysis of Multifunction Car Locker  
Bryankim Phangestu 1, Ferian Waisakha Putra 2, Lika Angelina 3, Lina Gozali 4, Wilson Kosasih 5, Carla Olivia Doaly 6, Agustinus Purna Irawan 7, Harto Tanujiaya 8, Frans Jusuf Daywin 9  
1, 2, 3, 4, 5, 6, 9 Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 143  Production, plant layout, and financial planning of Multifunctional Back Car Seat Organizer  
Marcella Darmawan1, Verry Gunawan2, Nicholas Christiardi Sumardi3, Lina Gozali4, Wilson Kosasih5, Carla Olivia Doaly6, Agustinus Purna Irawan7, Harto Tanujiaya8, Frans Jusuf Daywin9, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 144  Business Feasibility Analysis: Multifunctional Handphone Holder  
Gabby Florencia, Ignacia Claraest, Hendrawan Suryajaya, Lina Gozali, Wilson Kosasih, Carla Olivia Doaly, Agustinus Purna Irawan, Harto Tanujiaya, Frans Jusuf Daywin, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 145  Design Planning of Hand Sanitizer Dispenser and First Aid Kit on Bus  
Alvina Chandra, Kenheskey, Suvalen, Lina Gozali, Wilson Kosasih, Carla Olivia Doaly, Agustinus Purna Irawan, Harto Tanujiaya, and Frans Jusuf Daywin, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 250  Design and Development of Automatic Bakelite Cleaner for Marilao Alerco Industrial Corporation  
Val Ryan E. Aguiar, Racquel G. Tadina, Eugene R. Tamba and Dr. Maria Teresa B Mendoza, Technological Institute of the Philippines - Manila

ID 322  Analisis Sistem Antrean Servis Kendaraan Pada Bengkel Motor XYZ Dengan Pemodelan Simulasi Arena  
Muthia Zerey Ariani and Nugie Novanto, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia

12:00 – 1:45 pm, MONDAY  
Simulation Competition  
Room 3

Session Chair: Judging Team

ID 401  Analysis of the XYZ Cinema Queue System Using Arena Simulation Software  
Hayati, Mariana Audini, Fitra Lestari, and Akhmad Nidhomuz Zaman, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Depok, West Java 16514, Indonesia

ID 440  Analysis of A Container Ship Unloading Queue At An Port X With An Application For The Proprietor Arena Software 14.0  
Irsyad Mawardi, and Dwie Achmad Basyar, Akhmad Nidhomuz Zaman, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia

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ID 453  Simulation of Inpatient Queuing to Reduce BPJS Registration Waiting List at XYZ Hospital
Dyah Ayu Pitaloka and Renesha Fitri Asilah, Akhmad Nidhomuz Zaman, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Fitra Lestari, Associate Professor, Department of Industrial Engineering, Head of Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia.

ID 330  Analysis of OPBU Queue System AT POM Bensin Bogor Regency with Arena Simulation Modeling
Angger Nota Sulthani and Nadia Putri Briggita, Student, Industrial Engineering Department, Faculty of Engineering, Universitas, Pembangunan Nasional Veteran Jakarta, Indonesia
Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Fitra Lestari, Associate Professor, Department of Industrial Engineering, Head of Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 495  Analysis of Queue Simulation at JCO Outlet Using Arena Software
Annisa Zahra Hafizhah, Bilzinilah Aifa Sya’nindita, Student, Industrial Engineering Department, Faculty of Engineering Veteran National, Development University of Jakarta, Indonesia
Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia
Fitra Lestari, Associate Professor, Department of Industrial Engineering Head of Department of Industrial, Engineering Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 363  Analysis of Automatic Toll Gate Payment Queue System
Najibatul Mujahidah and Hasna Rafifah Azmi, Student, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

12:00 – 1:45 pm, MONDAY  COVID-19 Competition  Room 4
Session Chair: Judging Team

ID 228  Public Product during Pandemic: “MULTIFUNCTIONAL HYGIENE FACILITY”
Kevin Adrian, Shafa Aliauddin Piotorlarhoro, Marchelino Gosal, and Agnes Setiawan, Lina Gozali, Frans Jusuf Daywin, Helena Juliana Kristina, and Harto Tanujaya, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
Andres, and Agustinus Purna Irawan, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 229  Smart Trolley as Sophisticated Supermarket Facility in Covid-19 Pandemic Era
Jonathan Albert, Willy Harianto, Gabrielle Halim, Gerald Rafael, Lithrone Larcha Salomon, Lina Gozali, Frans Jusuf Daywin, Helena Juliana Kristina, and Andres, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
Agustinus Purna Irawan and Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 280  COVID-19 Pandemic Risk and Tourist Attitude on Theory of Planned Behavior Model Approach
Atmaji, Head of Department of Management, Faculty Economic and Business, Head of Local Wisdom Group Research, Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Sinto Sunaryo, Department of Management, Faculty Economic and Business, Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Sariyanto, Department of Economic Development, Faculty Economic and Business, Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Risgianty, Department of Management Faculty Economic and Business, Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Wahyu Trinaringsih, Department of Management Faculty Economic and Business, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 457  Artificial Intelligence and Covid-19: A Bibliometric Analysis
Lamar Aljahdali, Aichetou Mohamed Sidiya, Joud Kaki, Computer Science Department, Eiff University, College of Engineering, Eiff University Jeddah, Saudi Arabia
Tayeb Brahimi, Energy and Technology Research Center, Natural Science, Natural Science, Mathematics and Technology Unit, College of Engineering, Eiff University, Jeddah, Saudi Arabia

ID 460  A Bibliometric Analysis of COVID-19 and Vaccines
Dina Dalloul, Reem Alsharabi, Shaymaa AlDabbagh, Computer Science Department, Eiff University, College of Engineering, Eiff University Jeddah, Saudi Arabia
Tayeb Brahimi, Energy and Technology Research Center, Natural Science, Natural Science, Mathematics and Technology Unit, College of Engineering, Eiff University, Jeddah, Saudi Arabia

ID 666  Termination of Employment as an Economic Impact in Indonesia Due to the Covid-19 Pandemic is Reviewed from the Perspective of Employment Law
Mustika Mega Wijaya, Dinalara D Butarbutar, Department of Law, Faculty of Law Pakuan University, Bogor, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 668  Does the Government Cyber Public Relations Influence to Public Attitudes And Intentions Vaccine?
Roni Jayawinangun, Diana Amalasari, and Ismail Taufik Rusfien, Department of Communication Science, Faculty of Social Science and Humanities, Pakuan University, Jl. Pakuan PO Box 452 16143 Bogor, Jawa Barat, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia
ID 679  Forecasting the Number of Active Cases of COVID-19 in West Java Using the Multilayer Perceptron Feedforwards Neural Networks Method  
Yuyun Hidayat, Dhika Surya Pangestu, Titi Purwandari, Enny Supartini, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia  
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 680  Forecasting Covid-19 Active Cases in Bandung City Using the Long Short Term Memory  
Yuyun Hidayat, Mohammad Niks Iksan, Titi Purwandari, Enny Supartini, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia  
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

12:00 – 1:45 pm, MONDAY  Business Management  Room 5

Session Chair: Abdullah Sonhaji, Program Study of Mathematics, Institut Teknologi Bandung, Bandung, 40132, INDONESIA

ID 071  Determinant Factors of Innovation Strategies to Create Competitive Advantages in Batik SMEs  
Naniek Utami Handayani, Zainal Fanani Rosyada, Rafli Ramadhan, Department of Industrial Engineering, Diponegoro University, Semarang, Indonesia  
Anita Mustikasari, Department of Management, Yogyakarta State University, Yogyakarta 55281, Indonesia

ID 073  Solving a Supply Chain Network Design problem using the Centre of Gravity (COG) and the Distance Based Approach model for Cement Manufacturing and Distribution Company in Sierra Leone: A Case Study-Sierra Leone Cement Corporation-LEOCM company cement Pr  
Daniel Mao Mansaray, Master Program of Industrial Engineering Department, Faculty of Engineering Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia, Monitoring Evaluation and Learning Officer (MEAL) Officer at Action for Advocacy and Development-Sierra Leone a Non-Governmental Organization, Michael Street Makeni, Sierra Leone, West Africa  
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  
Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 158  Effect of Different Illuminance Levels on Operator Fatigue and Performance in a Simulated Manufacturing Task  
Lauditta Irianti, Yuniar, Dwi Kurniawan, Industrial Engineering Department, Institut Teknologi Nasional, Bandung 40124, Indonesia

ID 167  Preventing Stranded Coal Power Assets by Using Comparative Scenario of Energy Mixture and The SWOT Analysis of Energy Sector in Indonesia  
Rizal Ari Fando, Industrial Engineering Student, Sampoerna University, Jakarta Selatan, 12780, Indonesia  
Jeanne Svenskly Ligte, M.Eng. Head of Smart Production and Supply Chain Laboratory, Industrial Engineering Lecturer, Faculty of Engineering and Technology, Sampoerna University, Indonesia

ID 168  Improving Mixing Process Quality for Sweet Soybean Sauce Using Full Factorial Design of Experiment  
Noorilyana Abu Bakar, Department of Mechanical Engineering, Politeknik Ibrahim Sultan, Km 10, Jalan Kong Kong, 81700 Pasir Gudang, Johor, Malaysia  
Adnan Hassan, Department of Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor 81310, Malaysia

ID 178  Sustainability of Brand Equity of Business Management in Local Firm: Experience from Indonesia  
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
John Tampi Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
Gidion P. Adirinekso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

ID 180  Discriminant Analysis in Oil Palm Breeding  
Abdullah Sonhaji, Program Study of Mathematics, Institut Teknologi Bandung, Bandung, 40132, INDONESIA  
Udijanna S. Pasaribu, Program Study of Mathematics, Institut Teknologi Bandung, Bandung, 40132, INDONESIA

12:00 – 1:45 pm, MONDAY  Industry 4.0 / IoT  Room 6

Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 650  The Application of The House of Quality Matrix in Developing Work Time Measurement Technology Prototypes  
Euis Nina Saparina Yuliani and Muhammad Kholil, Industrial Engineering Study Program, Faculty of Engineering, Mercu Buana University, Jakarta, Indonesia  
Ajeng Yeni Setianingrum, Industrial Engineering Study Program, Gajah Tunggal Polytechnic, Banten, Indonesia

ID 651  Consumer Behavior on Selection of Online Retail Stores  
Nurul Huda, Jefry A. Sinaga, Nismah Panjaitan, Chindy E. Revadi, Chalis F. Hasibuan, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20145, Indonesia

ID 620  Evaluation of Information System Implementation on Civil Registration Service at Surabaya, Indonesia (Case Study: Birth Certificate Service)  
Maria Anityasari, Aafur Fikri Dimyati, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

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<th>ID</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>623</td>
<td>A Framework of University Internship Information System with Web-Based Design Analysis</td>
<td>FA Pratama, Department of Information System, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia; RM Silitonga, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan; YT Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan</td>
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<td>631</td>
<td>Designing Sustainability Accounting and Dashboard Monitoring Based on Open ERP using Quickstart Approach</td>
<td>Putu Priyanka Sonia Dewi, Ari Yanuar Ridwan, and Umar Yunan Kurnia Septo H, Information System Department School of Industrial Engineering, Telkom University, Bandung, 40257, Jawa Barat</td>
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<td>534</td>
<td>The Potential and Challenges of Virtual Reality in Indonesia</td>
<td>Ainun Habibah, Dwita Astari Pujianti, Ari Widianti, and Herman Rahardian Soetisna, Industrial Engineering, Bandung Institute of Technology, Bandung, Indonesia</td>
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<td>538</td>
<td>Visual Fatigue Examination on Static and Dynamic Virtual Environment</td>
<td>Laras Swandyarani and Aditya Sudianto, Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
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<td>649</td>
<td>Feasibility Study Analysis of Bottle Reverse Vending Machine Based on Value Engineering Concept using IoT Approach</td>
<td>Joko Wisnugroho, Civil Department, Faculty of Engineering, University of Indonesia, Depok, Indonesia</td>
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**September 13, 2021 (Monday) - Session: 2:00 – 3:45 pm**

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<td>Undergraduate Student Paper Competition</td>
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<td>2:00 – 3:45 pm</td>
<td>Senior Design Project Competition</td>
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<td>Quality Improvement of Bolt Welding M6 X 12 with Six Sigma Method and Multi Attribute Failure Mode Analysis (MAFMA) In PT</td>
<td>A Harland Syaelfullah, Rina Fitriana, and Elfira Febriani Harahap, Department of Industrial Engineering, 11440, Indonesia</td>
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<td>466</td>
<td>Influence of Social Media Marketing, Word of Mouth and Advertising on Brand Awareness and Buying Interest (Case Study of Indihome Product)</td>
<td>Lidia Gabriella Titawano and Erni Martini, S. Sos., M.M2, Faculty of Economic and Business, Telkom University, Bandung, Indonesia</td>
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<td>470</td>
<td>Optimization of Woven Fabric Production Process Using Multi Response Taguchi, GRA and PCA</td>
<td>Yunus Nazar, Instructor, Department of Weaving Engineering, AK-Tekstil Solo, Surakarta, Indonesia; Eko Pujianto, Lecturer, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia; Lobes Herdian, Lecturer, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia; Cucuk Nur Rosyidi, Professor, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia</td>
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<td>473</td>
<td>Analysis Quality Control of TR 7864 Fabric Product Using Statistical Quality Control Method: A Case Study</td>
<td>Anisa Agustina, 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</td>
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<td>474</td>
<td>Workload Analysis to Optimize Productivity of the Inspection Division</td>
<td>Anisa Nur Mayaw Dwi Ratih Hilda Hidayat, 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</td>
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<td>476</td>
<td>The Effect Of Perceived Ease Of Use Website And Internet Skills On Website Trust And Online Purchase Interest</td>
<td>Tasya Millenia Safir and Erni Martini S. Sos., M.M, Faculty of Economics and Business, Telkom University, Bandung, Indonesia</td>
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<td>662</td>
<td>Solar Powered Swimming Pool with Smart Lighting System</td>
<td>Shavae Scale, Adrian Francis, Rohando Malcolm, Lamanja Ellis, Kemar Green, Junior A. Bennett, and Glendon Lewis, School of Engineering, University of Technology, Jamaica</td>
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<td>Application of Kota Kasablanka Mall Parking Tickets Using QR Code as a Physical Ticket Substitute</td>
<td>Fita Lestari, Akhmad Nidhomuz Zaman, Ida Bagus Putu Yordan, Dani Wahyudi, Noorulloh Fajrezi, Industrial Engineering Department, Engineering Faculty, Pembangunan Nasional Veteran Jakarta University, Jakarta Selatan, Jakarta 12450, Indonesia</td>
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<td>Simulation and System Modelling of Ice Cream Cashier at McDonald’s Branch XYZ</td>
<td>Rahmi Dwi Fitriani, Irene Fritzdwina, Akhmad Nidhomuz, Fita Lestari, Industrial Engineering, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jl. RS. Fatmawati Raya, Pd. Labu, Kec. Cilandak, Jakarta Selatan, Indonesia</td>
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2:00 – 3:45 pm, MONDAY  Operations Management  Room 3

Session Chair: Gidion P. Adirinekso, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

ID 389  Automated Material Handling System and Inspection System Model for Flexible Manufacturing Systems Learning
Ari Setiawan, Hans Pratama, Kelvin Setyadi, Vina Sari Yosephine, Dept. of Industrial Engineering, Institut Teknologi Harapan Bangsa, Bandung, Indonesia

ID 403  Industrial Zone Site Selection Based on Geographic Information System (GIS) And Fuzzy Analytic Hierarchy Process (F-AHP) in The Northern West Java Province
Mouli De Rizka Dewantoro, Master Student of School of Industrial Engineering, Telkom University, Bandung 40257, Indonesia
Endang Chumaidyah, School of Industrial Engineering, Telkom University, Bandung 40257, Indonesia
Yudha Pramudia, School of Industrial Engineering, Telkom University, Bandung 40257, Indonesia
Syed Ahmad Helmi bin Syed Hassan, School of Mechanical Engineering, Universiti Teknologi MARA, Malaysia

ID 442  A Bibliometric Overview of Universal Basic Income Study
Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Nur Asitah, Primary Education Department, Universitas Nahdatul Ulama Sidoarjo, Salatiga, Indonesia

ID 455  Designing E-Business Startup: Potato Indofarm
Haryadi Sarjono, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 163  Analysis of Warteg's Customer Satisfaction Levels on the Use of Food Delivery Services
Farida Aprilia Rozanto, Rienda Noviyanti, Resa Septiani Pontoh, Department of Statistics, Universitas Kristen Krida Wacana, Jakarta, Indonesia

ID 175  Domestic Passengers Forecasting Using Intervention Step Function Seasonal Autoregressive Integrated Moving Average in Kualanamu International Airport
Antony Akbar, Lienda Noviyanti, Resa Septiani Pontoh, Department of Statistics, Universitas Padjadjaran, Bandung 40132, Indonesia

ID 255  Switching Intention of ATM Link to Digital Transactions in Responding Himbara's Bank New Policy: PPM Framework Perspective
Gidion P. Adirinekso, Management Faculty of Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

ID 004  Comparing the Relationship of Tourist Attraction by Using Association Rule
Ivan Diryana Sudirman, Dimas Yudistira Nugraha, Iston Dwija Utama, Tjia Fei Tjioe, Entrepreneurship Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Bandung, West Java, 40181, Indonesia

ID 299  Development of a Framework for Household Solid Waste Management in an Urban Locality
ID 512  The Effects of Store Atmosphere and Service Quality on Customer Loyalty (Case Study of a Coffee Shop in Tasikmalaya, Indonesia)
Handy Fadillah Rachman, Aditya Wardhana, Mahr Pradana, and Tri Indra Wijaksana, Department of Business Administration, Telkom University Bandung, 40257, Indonesia

ID 294  Use of Internet of Things (IoT) in the Design of an Inventory Management System for Omni-Channel Retailing
Sheila Mae Carungay, Francispito Quevedo and Venusmar Quevedo, Department of Industrial Engineering, College of Engineering, Adamson University, Manila, Philippines

ID 230  Designing Strategy for Meisterstadt Batam Apartment Unit Using SWOT and QSPM Method
Nanang Alamsyah, Department of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jakarta Selatan, DKI Jakarta, Indonesia
Trenggono Tri Widodo, Department of Industrial Engineering, Universitas Ibn Sina, Batam, Kepulauan Riau, Indonesia
Yulizar Widiatama, Department of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jakarta Selatan, DKI Jakarta, Indonesia
Dika Ade Viona, Meisterstadt Batam Apartment, Batam, Kepulauan Riau, Indonesia

ID 231  Conceptual Model of Relationship Between Quality Management System, Dynamic Capabilities, Knowledge Management, Open Innovation and Company Performance
Merita Bernik and Dradjad Irianto, Department of Industrial Engineering and Management, Faculty of Industrial Technology, Institut Teknologi Bandung (ITB), Bandung, Indonesia

ID 282  Empirical study of MOPSO and NSGA II comparison in multi-objective location routing problem incorporating the service level of delivery
Rachmat Parayoga and Anna Maria Sri Asih, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Indonesia

2:00 – 3:45 pm, MONDAY  Business Management  Room 5
Session Chair: Muhammad Zulfikar, Industrial Engineering Department, UIN Sunan Kalijaga Yogyakarta, Yogyakarta, Indonesia

ID 181  Readiness for Online Learning in Higher Education: A Descriptive Analysis on Malaysian’s University Students
Khairunesa Isa, Department of Social Sciences, Center for General Studies and Co-Curricular, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia
Sarala Thulasi Palpanadan, Language & Linguistics Department, Center for Language Studies, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 202  Competitive Advantage Strategy Implementation to Gain Customers Engagement and Brand Positioning
Ario Oriwarda Girsang, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Nicholas Veri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Reynor Giovann Tjandra, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 238  Integrated Information System to Improve Indonesia Fishery Supply Chain
Cindy Himawan, Information System, President University, Jababeka, Indonesia, Ivan Siregar, Information System, Institut Teknologi Harapan Bangsa, Bandung, Indonesia

ID 251  Effectiveness of Business Incubators in Developing Nutrisociotechnopreneur in Nutritional Students of Universitas Pembangunan Nasional Veteran Jakarta Graduate Program
Widyani Wahyuningtyas, Health Science Faculty, Universitas Pembangunan Nasional Veteran Jakarta
Zackharia Rialmi, Economic and Business Faculty, Universitas Pembangunan Nasional Veteran Jakarta
Condrowati, Health Science Faculty, Universitas Pembangunan Nasional Veteran

ID 304  Performance Management System for Industrial Water Management Company Using Balanced Scorecard Model
Hamdani, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, 60111, Indonesia

2:00 – 3:45 pm, MONDAY  Manufacturing  Room 6
Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 569  Improving Oil and Gas Wireline Log Data Quality Using Six Sigma Methods
Desma and Leni Sagita, Department of Civil engineering, Faculty of Engineering, University of Indonesia, Depok, Indonesia
Mohamad Ichsan, Management Program, Binus, Business School Undergraduate Program, Jakarta, Indonesia

ID 637  Optimum Route Design for Paper Waste Transportation Using Sequential Insertion: Waste Bank in Grobogan

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September 13, 2021 (Monday) - Session: 4:00 – 5:45 pm

**4:00 – 5:45 pm, MONDAY**

**Undergraduate Research Competition**

**Room 1**

**Session Chair:** Judging Team

**ID 001 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

**ID 024 Comparing Decision Tree and Artificial Neural Network Model in Predicting Bank Approval on Customer Credit**

Puji Rahmawati, Aisyah Larasati, Industrial Engineering Department, State University of Malang, Malang, Indonesia, Marsono, Mechanical Engineering Department, State University of Malang, Malang, Indonesia

**ID 116 Modification of Food Dehydrator for Tea Blend Products Using Reverse Engineering and VDI 2221 Methods**

Laurencia Sutianto, Lina Gozali, Frans Jusuf Daywin, Industrial Engineering Program, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

**ID 153 Supply Chain Risk Assessment of Hazardous Chemical Products in a University Laboratory**

Dacanay, Daren Joy T. a, Velasco, Ma. Carmina C. b, Quevedo, Venusmar C. c, Lasisan, Lourdes P.d, Industrial Engineering Department Adamson University, Manila, Philippines

**ID 237 Customer Satisfaction Analysis on Food Delivery Services during the COVID-19 Pandemic Using Bayesian Network**

Rendi Kurniawan1, Tutik Farihah, Department of Industrial Engineering, Sunan Kalijaga Islamic State University Yogyakarta, Indonesia

**ID 263 Modification of Chocolate Stirring Machine Using Reverse Engineering and VDI 2221 Method**

Calvin1, Frans Jusuf Daywin2, Adianto3, Lina Gozali4, Agustinus Purnairawan5, Wilson Kosasih6, Industrial Engineering Department, 5Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

**ID 711 Warehouse Arrangement Improvement Based on SS Method for CV Javatech Agro Persada**

Muhammad Tohari, and Manik Mahachandra, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Central Java 50269, Indonesia
ID 283  The Role of E-Procurement To Prevent Fraud in The Procurement of Goods and Services During the Pandemic: Covid-19
Procurement Of Goods and Services Corruption Case Study in Bandung, Indonesia
Cindy Monica B., M. Yoga P. I. and Denisa S.R.R., Universitas Surabaya, Indonesia

ID 289  The LSTM Technique for Demand Forecasting of E-Procurement in the Hospitality Industry in the UAE
Made Dibya, Rubel Shandi, Khoirul Anwar, Mulya Antika, Universitas Surabaya, Indonesia

ID 301  Database Creation to Help Producers of Tofu and Tempeh and Soybean Farmers in Procurement Problems
Shearry Christina Tanjung, Universitas Surabaya, Indonesia

ID 303  Prevention of Corruption Related to the Procurement of Goods and Services In Indonesia
Dicky Andika, Universitas Surabaya, Indonesia

ID 315  Implementation of E-Procurement at LKPP during Pandemic
Saphira Susila, Universitas Surabaya, Indonesia

ID 316  Contract Analysis System to Secure Procurement: Prasamaya
Afina Natasya Putri, Universitas Surabaya (UBAYA), Indonesia

ID 493  Being a Sustainable Bank: The Case in Indonesian Banks
Adi Teguh Suprapto, Dezie Leonarda Warganegara and Wirbowo Kosasih, Doctor of Research in Management, Binus Graduate Program, Binus University, Jakarta, 11480, Indonesia

ID 496  Risk Factor Mitigation Strategy Design in the Implementation of Internet of Things (IoT) Technology of the Manufacturing Industry in the Automotive Sector Using COBIT 5 Risk Model
Rifani Adella Ferdianursari, Soedharto, Student, Department of Industrial Engineering, Laboratory of Manufacturing System Laboratory, Faculty of Engineering University of Indonesia (UI), Depok, Indonesia

ID 497  Improvement of Education Quality Using Quality Control Circle Methods Based on Fulfillment of ISO 21001 Requirements
Yudi Syahrullah, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

ID 320  Economic Ordering Policy of Deterioration Item with Time Varying Holding Cost under Backlogging and Permissible Delay in Payments
Laila Nafisah, Yuli Dwi Astanti, Ahmad Muhsin, Department of Industrial Engineering, Faculty of Industrial Engineering, UPN Veteran Yogyakarta, Indonesia
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<td>Application of Nonlinear Autoregressive Exogenous Neural Network (NARX NN) for Forecasting Tenant Revenue and Its Relation to the Number of Passengers in Soekarno-Hatta International Airport</td>
<td>Ferdian Agustiana, Student of Doctorate Program, Doctor of Research in Management, Binus Business School Bina Nusantara University, Jakarta</td>
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<td>Regulation of Sales Tax Relaxation on Luxury Goods (PPNBM) Based on Regulation of the Minister of Finance Number: 20/PMK.010/2021</td>
<td>Nabila Mahardhika Jiwani, Resa Septiani Pontoh, Anindy Apriliyanti Pravitasari, Department of Statistics, Padjadjaran University, Surabaya, Indonesia</td>
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<td>Transfer Pricing Decisions: Manufacturing Companies That Have Special Relationships on the Indonesia Stock Exchange</td>
<td>Amny Widiastamara, Ika Purwaningsih, Diaz Martha Chairunnisa, Accounting Study Program, Faculty Economy and Business, Universitas Padjadjaran, Indonesia</td>
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<td>Predicting Potential Cases of Natural Disasters in Indonesia Using the Homogeneous Poisson Process</td>
<td>Kaffin, Doctor Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia</td>
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<td>Determinants of Tax Avoidance: Evidence from Indonesian Listed Companies</td>
<td>Haqi Fadillah, Aida Zahara Mariani, and Joko Supriyanto, Accounting Department, Pakuan University, Kota Bogor, Indonesia</td>
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<td>Lean Hospital Using Waste Relationship Matrix</td>
<td>Fitra Lestari, Rozar Rayendra and Orie Harasakito, Industrial Engineering Department, Faculty of Science and Technology, UIN Surabaya, Indonesia</td>
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<td>Project-Based Learning in Civil Engineering: Learning Experience from the Steel Structure Design Course at Universitas Sebelas Maret Indonesia</td>
<td>Ertik Wahyu Pradana, Civil Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Indonesia</td>
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<td>The Effect Of Work Discipline On Performance In Educational Institutions</td>
<td>Dedi Iskamto and Herison, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia</td>
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<td>The Effect Of Leadership Style And Organizational Culture On Employee Performance In Pt. Telkom Witel Aceh</td>
<td>Rekha Aulia Akhramah Ismi, Dr. Alex Winarno S.T, M.M, Bachelor of Business Administration, Faculty of Communication and Business, Telkom University, Indonesia</td>
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<td>520</td>
<td>An Approach of Project Based Learning design for Autonomous Vehicle Course in Online Class</td>
<td>Joko Slamet Saputro, Miftahul Arwan, Feri Adiyanto and Hari Mahgfiroh, Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Indonesia</td>
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<td>Development of Personality and Organizational Justice Models in Improving Teacher Service Quality in the Educational 4.0</td>
<td>Henny Suharyati, Sri Setyaningsih, Kania Rubiati, Department of Education Administration, Graduate School, Universitas Paukan, Indonesia</td>
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<td>Preparing New Engineer for the Job Skills Demanded in the 21st Century</td>
<td>Albertus Retnanto, Ph.D., Professor, Petroleum Engineering, Texas A&amp;M University at Qatar, Doha, Qatar</td>
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<td>Machine Learning-based Customer Churn Prediction and Sentiment Analysis Models for Online Educational Service</td>
<td>Ritzke Aisyarah, Praditya Aidarma, and Dradjad Irianto, Industrial Engineering Program Study, Faculty of Industrial Technology, Institut Teknologi Bandung (ITB), Bandung, Indonesia</td>
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### Occupational Safety and Health (OSH) - Room 6

4:00 – 5:45 pm, MONDAY  

**Session Chair:** Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

**ID 530**  
**Personal Protective Equipment for Health Workers During a Pandemic: A Literature Review of Evaluation of Discomfort and Physiological Response**  
Totong Totong dan Hardianto Iridiastadi, Industrial Engineering and Management Department, Bandung Institute of Technology

**ID 544**  
**Influence Safety Climate and Safety Behavior Against the Safety Behavior on Bus Rapid Transit Driver with Gender as Moderating Variable**  
Rahmanda Wulandari, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia  
Dyah Santhi Dewi, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia  
Adithya Sudiarso, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia

**ID 568**  
**Evaluation of the Implementation of Fire Safety Management Based on Work Breakdown Structure for High-Rise Apartments**  
Soraya Muthma Innah Nasution, Fadhilah Muslim, Yusuf Latief, Civil Engineering, Faculty of Engineering, University of Indonesia  
Depok, West Java 16424, Indonesia

**ID 607**  
**Identification of Occupational Health and Safety Management System Indicators Based on Indonesian Government Regulation Number 50 Year 2012 and ISO 45001:2018 on Safety Culture in EPC Projects**  
Dennur Izzati Sugito, Leni Sagita Riantini and Rossy Amlyn Machfudiyanto, Department of Civil Engineering, Universitas Indonesia, Jakarta, Indonesia

**ID 628**  
**Application of Occupational Health and Safety (K3) in Agrotourism**  
M. Yusuf, Department of Mechanical Engineering, Politeknik Negeri Bali, Indonesia  
N. K. Dewi Inawati, STIPAR Triatma Jaya Denpasar, Bali, Indonesia

**ID 634**  
**Occupational Health and Safety in Classroom Facilities Layout When New Normal at Bali International University**  
I Gusti Agung Haryawan, Komang Angga Prihartini, AgnesAyu Biomi, Occupational Health and Safety Study Program, Faculty of Health Sciences International University of Bali, Indonesia

**ID 635**  
**Ergonomic Approach on Rail Industry Workers Using Rail Ergonomics Questionnaire**  
Dian Palupi Restuputri, Angelie Rekha Elvera, Adhi Nugraha, Ilyas Masudin, Industrial Engineering, University of Muhammadiyah Malang, Malang, East Java, Indonesia

**ID 640**  
**Eliminating Unsafe Behaviour through the Implementation of Nudge Theory in Indonesian Industry**  
Andri Prabowo, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia  
Dau Hadi Syafaullah, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

**ID 648**  
**Potential Hazard Analysis for Higher Education Laboratory Building (Pilot Case Study in Industrial Technology Faculty)**  
Dicky Rahmadhani, Muhammad Ragil Suryoputro, Amaria Dila Sari, Industrial Engineering Department, Universitas Islam Indonesia Yogyakarta, Indonesia

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**September 13, 2021 (Monday) - Session: 6:00 – 7:45 pm**

6:00 – 7:45 pm, MONDAY  

**Undergraduate Research Competition**  

**Session Chair:** Judging Team

**ID 265**  
**Modification Of Potato Washing Machine By Adding Cutting Tool Using Reverse Engineering And Vdi 2221 Method**  
Fransiscus Felix1, Frans Jusuf Daywin2, Adianto3, Lina Gozali4, Agustinus Purnairawan5, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

**ID 267**  
**Modification of Dual Group Head Coffee Machine Using Reverse Engineering and VDI 2221 Method**  
Willy Andreas1, Frans Jusuf Daywin2, Lithrone Laricha3, Lina Gozali4, Agustinus Purnairawan5, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

**ID 331**  
**Technology Acceptance Model (TAM)-Based Study of Students’ Acceptance in Using Gamification Tools on Learning Management ID System (LMS) for Boosting Engagement and Motivation**  
Renée Hannah A. Niro, Via Shereen L. Daracan, Arvin Joseph D. Pizarro, and Josephine D. German, School of Industrial Engineering and Management, Mapúa University, 685 Muralla St., Intramuros, Manila 1002, Philippines

**ID 419**  
**Optimization of Medical Personnel in Response to COVID-19 in the Philippines: A Working Time Scheduling Problem**  
Reiniel D. Allanic, Shahira S. Herrera, Stephanie Christine D. Landicho, Aracely Ruth DC., Ramiro, Romalyn L. Galigan, Ma. Teodora E. Gutierrez Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

**ID 420**  
**Administration and Productivity Improvement through Time Study Approach of COVID-19 Vaccination Process in Jordan**  
Raghdha Noureldin, Jumana Alwaheeb, Anwaar Eliahw, Department of Industrial Engineering, The University of Jordan, Amman, Jordan

**ID 661**  
**Residential Swimming Pool Design with Smart Lighting System**
7:00 – 9:00 pm, MONDAY  Poster Competition (Undergraduate)  Room 2

Session Chair: Judging Team

ID 317  Implementation E-Procurement in Domestic Rice Procurement
Hadiwijaya Tjokro, Universitas Surabaya, Indonesia

ID 321  Corruption Cases in the Government Goods and Services Procurement
Velicia Oktaviani, Universitas Surabaya, Indonesia

ID 326  Digi-Care: Application with Blockchain and Machine Learning as a solution for Hospital Supply Chain and Logistic Management Problem in Indonesia
Willyandro Thunggara, Universitas Surabaya, Indonesia

ID 333  Predicting E-Procurement Utilization in Independent Commissions in Kenya
Lisha Haini, Universitas Surabaya, Indonesia

ID 380  Decision Support System for Medical Equipment Tender at PKU Muhammadiyah Hospital Sekapuk, Gresik
Berlian Waruwu, Universitas Surabaya, Indonesia

6:00 – 7:45 pm, MONDAY  Supply Chain and Logistics Competition  Room 3

Session Chair: Judging Team

ID 052  Investment Feasibility and Charging Station Location Model with Multi-Purpose Programming for Urban Areas
Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo and Muh. Hisjam, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia

ID 054  A Location and Allocation Model in Determining Charging Station Facilities Using Facility Fixed and Variable Cost: A Case Study
Bekti Nugrahadi, Master Program of Industrial Engineering Department, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia, President, IEOM Indonesia Chapter
Muhammad Hisjam, Department of Industrial Engineering, Head of Logistics and Business System Laboratory, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 084  Production Planning and Control Industry 4.0 on Plastic Bottles With the Blow Moulding Process (Case Study Pt. Peace Industrial Packaging)
Sharin Chandra, Lina Gozali, and Andres Tjhia, Frans Jusuf Daywin, Student of Industrial Engineering Department, Lecturer of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 092  Material Requirement Planning on Y-Strainer Production (Case Study at PT. XYZ)
Natalia Velony Putri and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. Letjen S. Parman No. 1, Jakarta 11440, Indonesia

ID 133  A Logic model development for planning program in Indonesia SMEs - Case study: Pucung, Manding, and Keparakan Kidul leathercraft industries
Galuh Puspita Sari & Diana Ross Arief, Lecturer, Department of Leather Product Processing Technology, Lecturer, Department of Rubber and Plastic Processing Technology, Politeknik ATK Yogyakarta (Indonesia Ministry of Industry), Jalan Prof. Dr. Wiridjono Prodjodikoro, Glugo, Panggungharjo, Sewon, Bantul, Yogyakarta 55188, Indonesia.
Felix Arril Simbara Barus, Doctoral Student, Department of Industrial Management, National Taiwan University of Science and Technology, No.43, Keelung Rd., Sec.4, Da’an Dis., Taipei City 106335, Taiwan (R.O.C.)

ID 349  Inventory and Purchasing Analysis of Main Distribution Materials: Case Study in an Electrical Company Unit
Bagus Panuntun, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, Indonesia

6:00 – 7:45 pm, MONDAY  Artificial Intelligence  Room 4

Session Chair: Rosnani Ginting and Aulia Ishak, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20155, Indonesia

ID 151  Automatic Cataract Detection System based on Support Vector Machine (SVM)
ID 152  A Conceptual Model: The Role of Social Networking in Indonesian SMEs during COVID-19 Pandemic  
Maria Pampa Kumalaningrum, Management Doctoral Program-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia, Department of Management-Faculty of Economic and Business, STIE Yayasan Keluarga Pahlawan Negara (STIE YKPN), Yogyakarta, Indonesia  
Wakhd Shlmet Ciptono, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia  
Nurul Indarti, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia  
Boyke Rudy Purnomo, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia  

ID 675  Forecasting Spread of Disease Covid-19 as Consideration of Determination of PPE  
Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Wahyudi Sutopo and Muh. Hisjam, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  

ID 547  Analysis of Trucking & Transportation Services Performance Factors: A Lean and Green Paradigm Shift  
Gabriel Dan F. Fermazi, Cel Adriane Y. Lalo, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines  

ID 615  Hybrid Metaheuristics for Solving Vehicle Routing Problem in Bulk Cement Distribution  
Antono Adhi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia, Department of Industrial Engineering, Universitas Stikubank, Semarang, Indonesia  
Budi Santosa, Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia  

ID 094  Improvement of Shoes Manufacturing Process at SMEs using the Quality Function Deployment (QFD)  
Rosnani Ginting and Aulia Ishak, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20155, Indonesia  

ID 351  Effects of Online Learning Capacity on the Academic Stress of Students: A Case Study during COVID-19 Pandemic  
Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines  

ID 256  Digital Industry Competition of Video on Demand Services: Technology Perspective and Consumer Behavior  
Gidion P. Adirineko, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia  
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang 15811, Indonesia  
John Tampli Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang 15811, Indonesia  

ID 611  Reviewing the relationship between Authentic Leadership, Employee Engagement, and Organizational Innovation: Telecommunication Sector in Malaysia  
Abdiazz Mohamed Abdolahman, and Seow Ta Wee, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Malaysia  

ID 557  Product Packaging in Support of Consumer Loyalty  
Chyntia Ika Ratnapuri, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Okky Rizkiyah Yustian, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Dian Kurnianingrum, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Doni Purnama Alamsyah, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  

ID 653  The Effects of the COVID-19 Pandemic on the Common People, the Environment and the Malaysian Economy  
Fadillah Ismail, Muhammad Imran and Umi Kartini Rashid, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia  

Muhammad Yahaya Musaa & Kahirol Mohd Salleh, Faculty of Technical and Vocational Education Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia  

ID 656  COVID Risk Assessment: A Case of Employees in Academic Sector  
Angelo Luis S. Doctora, William Davin D. Perez, Abigail B. Vasquez, Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines  

ID 673  Usability Testing on Student Document Management Application using Retrospective Think Aloud (RTA) and USE Questionnaire Methods  
Halimah Tus Sadiah and Ema Kumia, Information System Department, Universitas Paukan, Jl. Pakuan, Bogor, 16143, West Java, Indonesia  
Eneng Tita Tosida, Computer Science Department, Universitas Paukan, Jl. Pakuan, PO Box 452, Bogor, 16143, West Java, Indonesia  
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia
**September 14, 2021 (Tuesday) - Session: 8:00 am – 12:00 pm**

**Keynotes**

8:00 am, Tuesday, September 14 – Welcome Keynote from UNS Vice Rector – Room 1

8:20 am, Tuesday, September 14 – Keynote Speaker I: (Opening Keynote) – Meeting Room 1

**Dr. Jessika E. Trancik**  
Professor  
Institute for Data, Systems and Society (IDSS)  
Massachusetts Institute of Technology  
Boston, Massachusetts, USA

9:00 am, Tuesday, September 14 Keynote Speaker II: – Zoom Meeting Room 1

**Dr. Jay Lee**  
Vice Chairman and Board Member of Foxconn Technology Group  
Member of World Economic Forum Global Future Council on Advanced Manufacturing and Production

09:40 am, Tuesday, September 14 – Keynote Speaker III: – Zoom Meeting Room 1

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**ID 560**  
Study of Optimization Problems Associated With Technical Implementation of Drones in the Post-Pandemic Society  
Gary Yu-Hsin Chen and Chen-Yi Hung, Department of Logistics Management, National Kaohsiung University of Science and Technology, 1 University Rd., Yanchao Dist., Kaohsiung 82445, Taiwan  
Ronald Sukwadi, Department of Industrial Engineering, Atma Jaya Catholic University of Indonesia, Jl. Raya Cisauk, Sampora Tangerang Selatan, Banten 15345, Indonesia

**ID 602**  
The Optimization of Facility Location-Routing Decision Model for Municipal Solid Waste Network  
Cahaya Annisa Fathonah and Suparno, Department Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

**ID 618**  
The Framework of Information Distribution in Project Communication System of Quality Culture in Construction Companies to Reduce Construction Failure Levels  
Redhani Putri Maharani, Yusuf Latief, Rully Andika, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java 16424, Indonesia

**ID 542**  
Systematic Literature Review: Bibliometric Analysis of Green Consumer Behavior  
Aries Susanty, Nia Budi Puspitasari, Pradhipta Listyawardhani, Heru Prastawa, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, 50275, Indonesia

**ID 551**  
Supply Chain Risk Assessment at Poultry Slaughterhouses using House of Risk Method to Define Mitigation Action  
 Ratna Purwaningsih, Putri Indah Ramadani, Sri Hartini, Ade Aisyah Arifna Putri, Departement of Industrial Engineering, Diponegoro University Semarang, 50275, Indonesia

**ID 558**  
3D Printing Technology: A New Advancement for Modular Construction?  
William Faustin, Mohammed Ali Berawi, Gunawan Saroji, Civil Engineering Department, University of Indonesia, Depok, Indonesia

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Prof. George Q. Huang  
Chair Professor of Industrial and Systems Engineering  
Head of Department  
Director of HKU-ZIRI Laboratory of Physical Internet  
Department of Industrial and Manufacturing Systems Engineering  
The University of Hong Kong  
Hong Kong, China

10:20 am – BREAK

10:40 am, Tuesday, September 14 – Keynote Speaker IV: – Zoom Meeting Room 1

Dr. Robert de Souza  
The Executive Director  
The Logistics Institute – Asia Pacific (TLI – Asia Pacific)  
National University of Singapore, Singapore City, Singapore

11:20 am, Tuesday, September 14 – Keynote Speaker V: – Zoom Meeting Room 1

Harry Kasuma (Kiwi) Aliwarga  
Chief Executive Officer and Co-Owner  
UMG Myanmar  
Karet Kuningan Jakarta, Indonesia

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**September 14, 2021 (Tuesday) - Session: 1:00 pm – 3:00 pm**

12:40 – 3:00 pm, TUESDAY  
Global Engineering Education - 1  
Room 2

Session Chair: Prof. Dr. Syed Ahmad Helmi Syed Hassan

12:40 pm - OFFICIALLY OPENING of Global Engineering Education / Indonesian Engineering Education Conference (IEEC)

1:00 – 1:20 pm, Tuesday, September 14

Professor Abu Masud, Ph.D., P.E.  
Professor Emeritus  
Department of Industrial and Manufacturing Engineering  
Wichita State University, Kansas, USA

1:20 – 1:40 pm, Tuesday, September 14

Prof. Dr. Syed Ahmad Helmi Syed Hassan  
Associate Fellow  
Center for Engineering Education (CEE)  
Universiti Teknologi Malaysia  
Johor, Malaysia

1:40 – 2:00 pm, Tuesday, September 14

Prof. Ir. M. Agung Wibowo, MM, M.Sc, Ph.D.  
Dean, Faculty of Engineering  
Universitas Diponegoro  
Semarang, Indonesia

2:00 – 2:20 pm, Tuesday, September 14

Dr. techn. Ir. Sholihin As’ad, M.T.
2:20 – 2:40 pm, Tuesday, September 14

Dr. Neelam Srivastava
IET Institute of Engineering & Technology Lucknow Constituent College of A K T U Lucknow
Ex- Founding Director ( REC) | Ex – CPC SPFU, U.P | Senior Member IEEE
Lucknow, Uttar Pradesh, India

2:40 - 3:00 pm, Tuesday, September 14

Dr. Laila EL ABBADI
Associate Professor of Industrial Engineering
National School of Applied Sciences (ENSA)
Ibn Tofail University
Kenitra, Morocco

1:00 – 3:00 pm, TUESDAY    Business Management
Room 2

Session Chair: Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 445 Fourth Industrial Revolution in Indonesia: Lesson from Literature Mapping through Bibliometric Review
Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia
Andre Septianto, Chemical Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia, Elsa Rosyidah Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia
Muhammad Mansur Yafi, Industrial Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia
Raden Ayu Mutiara Artha Lestari, Environmental, Engineering Department, Universitas Kebangsaan, Bandung 40263, Indonesia

ID 458 Improving Safety Culture and Increasing Driver’s Safety Awareness of Intercity Bus in The Greater Jakarta Area
Dian Mardi Saffitri and Nora Azmi, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti, Jl Kyai Tapa no 1 Jakarta, Indonesia

ID 397 Does it Pay to be Perfect? A Lesson Learnt from CV XYZ
Christopher Hanjaya and Karina Agustin, International Business Engineering Program, Department of Industrial Engineering, Petra Christian University, Surabaya, Indonesia

ID 468 Interface Management in Oil and Gas Production Facility Projects in Natuna Block: Propositions and Framework
Muhammad Darussalam, Ayomi Dita Rasaraat, Department of Civil Engineering, University of Indonesia, Depok 16424, Indonesia
Mohammad Ichsan, Management Program, Binus Business School Undergraduate Program, Binus University, Jakarta 11480, Indonesia

ID 146 Design Key Performance Indicator for Supplier in Sustainable Organic Farming Supply Chain
Elisa Kusrini, Industrial Engineering Department, Faculty of Industrial Technology, Indonesian Islamic University (UI)
Anindita Rahmalia Putri, Billi Syufrian and Nurul‘ Ain, Master Industrial Engineering, Faculty of Industrial Technology, Indonesian Islamic University (UI)

ID 199 The Influence of Investment and Wage Levels on The Human Development Index (Case 6 Province in Sulawesi) 2015-2019
Nur Azmi Karim, Tjia Fie Tjoe, and Iston Dwija Utama, Entrepreneurship Department, Binus Business School Undergraduate Program Bina Nusantara University, Campus Bandung

ID 252 Halal Operation Assessment using Quality Function Deployment in Indonesian Cosmetics Industry
Muhammad Nurhasan Assidiq, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

1:00 – 3:00 pm, TUESDAY    Entrepreneurship and Innovation
Room 3

Session Chair: Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

Intan Pratiwi, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 062 Lesson Learned in Comparative Analysis of Global Business Strategy to Commercialize Wi-Fi Router Technology
Her Tafga Arfanindita, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

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ID 068  The Role of Technopreneurship and Innovation System for Commercializing Smart Backpack
Arga Setia Asmara Sakti, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 069  Strategy of Innovation and Implementation Outcome Based Education in Faculty of Engineering Diponegoro University
Naniek Utami Handayani, Department of Industrial Engineering, Diponegoro University, Semarang 50275, Indonesia
Mochamad Agung Wibowo, Department of Civil Engineering, Diponegoro University, Semarang 50275, Indonesia

ID 200  The Effect of Job Resources Demand on Job Performance Through Work Engagement, which is moderated by Computer-Related Technostress
Alex Winarno, Department of Business Administration, Faculty of Communication and Business, Universitas Telkom, Bandung, Indonesia
Heri Sapari Kahpi and Anis Fuad Salam, Department of Management, STIE Banten, Serang, Indonesia
Deni Hermana, Department of Management, Faculty of Economic and Business, Universitas Pakuan, Bogor, Indonesia

ID 203  Product Development Assessment to Measure the Accuracy in Realizing Customer Expectations
David Iskandar, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Kevin, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Reinhart Jason Darmawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagati, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 204  Applications and Challenges of Adopting Internet of Things (IoT) in Reducing Road Traffic Accidents
Ryan M. Paradina and Marvin I. Noronha, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

1:00 – 3:00 pm, TUESDAY  Engineering Management  Room 4
Session Chair: Abdul Rochim, Master of Industrial Engineering Student, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

ID 232  A Proposed risk model for the halal supply chain
Anisa Nurul Islamadina and Iwan Vanany, Department Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 292  Selection of E-Grocery Platform Strategy in Highly Urbanized Cities in the Philippines Using Analytic Hierarchy Process (AHP) and Structural Equation Modeling (SEM)
Antoinette R. Acosta, Angelina Patricia Fae B. Aben, and Marvin I. Noronha, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 467  Evaluation of Project Management Implementation Case Study: Environmental Phytoremediation Project in PT Abadi Bersama Cahaya Indonesia, Rezy Yudana Ruslan, School of Business and Management, Bandung Institute of Technology, Bandung, Indonesia

ID 324  Heterogeneous Vehicle Routing Problem with Vehicle Dependent Travel Time for Urban Freight Transportation
Fran Setiawan and Kevin Harvest Novialdo, Industrial Engineering Department, Faculty of Industrial Technology, Universitas Katolik Parahyangan Bandung, Indonesia

ID 388  Critical Success Factors of Asset Management Software Implementation in Construction Indonesia
Abdul Rochim, Master of Industrial Engineering Student, Universitas Mercu Buana, Meruya Selatan No. 1 Street, Kembangan, Jakarta, Indonesia
Zulfa Fitri Ikatninsari, Master of Industrial Engineering Lecturer, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

1:00 – 3:00 pm, TUESDAY  Industrial Management and Project Management  Room 5
Session Chair: Andhika Putra Pratama, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 007  Investigating Learning Method and Performance Rate Effect on Students’ Understanding Level using Experimental Design in Designing Effective Learning Strategy
Riana Magdalena Silitonga, b, Yung-Tsan Joua, Naftalia Asmaraldab, Muhammad Azmi Alamysaha, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan, Department of Industrial Engineering, Atma Jaya Catholic University of Indonesia, Indonesia

ID 040  Analysis Of The Efficiency Level Of Value Chain On Livestock With FMEA (Case Studi: Chicken Meat)
Hana Catur Wahyuni, Industrial Engineering, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia, Ika Ratna Indriastuti, Information, University Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia
Rima Azzahra, Food Technology, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia

ID 072  Consumers’ Perception on Quality Service Delivery of Two Major Telecommunication Companies In Sierra Leone: A comparative study
Antoinette R. Acosta, Angelina Patricia Fae B. Aben, and Marvin I. Noronha, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines
ID 089 Identification of the PLCOR Model for the Management of Product Lifecycle Management Process in Food Industry
Deasy Kartika Rahayu Kuncoro, Department of Agroindustrial Technology, Faculty of Agricultural Technology and Engineering, IPB University
Dramaga, Bogor, Indonesia
Wara Widyaningrum Endah Saptaningtyas, Agency of Industrial Research and Standardization Samarinda, Ministry of Industry Republic of Indonesia, Samarinda, Indonesia

ID 469 Public’s Perceptions of Batik and How We Determine Marketing Strategy of Batik as Informal Attire
Kintan Julia Rahanum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Tiara Safa Ardelia Putri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagati, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 424 Lean Manufacturing (LM) Implementation Study Literature Based on the K-Chart Framework
Yuli Agusti Rochman, Industrial Engineering, Faculty of Engineering, Gadjah Mada University, Indonesia, Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Indonesia
M. K. Kusumawana Herliansyah, Associate Professor, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia
Andi Sudiarso, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 475 An Intergrated Maintenance System Design for Improving the Performance on Air Jet Loom (AJL) Machine A Case Study in PT XYZ Boyolali
Andhika Putra Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 570 Innovative Learning Era Industrial Revolution 4.0 in Optimizing 21st Century Competence Elementary School Students
Fitri Indriani, Nur Hidayah, AIQisian, Nana Nur Okfitri, Department of Primary Education, Graduate School of Universitas Ahamad Dahlan

ID 571 How a Crisis Can Change Training Design: A Case Study on Principal Preparation Training in Indonesia
Ratna Juwita, Lembaga Pengembangan dan Pemberdayaan Kepala Sekolah dan Pengawas Sekolah (LPPKSPS), Kementerian Pendidikan dan Kebudayaan, Karanganyar, Indonesia

ID 572 The Conservational Attitudes of College Students in Elementary Schools Teachers of Education Department on Online Lecturing
Aldina Eka Andriani, Siti Maryatul Kiptiyah, Sukardi Sukardi, Sri Sanri Asih, Yuli Wito, Department of Elementary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 573 The Critical Thinking Skills of High School with Problem- Based Learning Model-Assisted Mind Map in Online Learning on Dynamic Fluid
Yurike Margaret Takus, Student at Department Magister of Physics Education, Faculty of Teacher Training and Education, Sebelas Maret University, 57126, Indonesia
Widha Sunarno and Daru Wahyuningsih, Faculty of Teacher Training and Education, Sebelas Maret University, Surakarta, Indonesia

ID 574 Support Vector Regression (SVR) Model for Seasonal Time Series Data
Hanifah Muthia, Umu Sa’adah, Achmad Efendi, Department of Statistics, Brawijaya University Malang, Indonesia

ID 575 Factors Affecting Family Resilience of Health Workers during the COVID-19 Pandemic: A Systematic Literature Review
Aprilia Puspitasari, Master of Faculty Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah
Dian Veronika Sakti Kaloeti, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 576 The Level of Ability of Public Elementary School Teachers in Use Digital Technology-Based Learning Media during the Covid-19 Pandemic
Indra Nugraha Suwiko, Indonesian Language and Literature Education Department, RAA Wiranatakusumah 7, Baleendah, Bandung, Indonesia
Syihabuddin and Sumiyadi, School of Postgraduates, Indonesia University of Education, Dr. Setiabudhi 229, Bandung, Indonesia

September 14, 2021 (Tuesday) - Session: 3:00 – 5:00 pm

3:00 – 5:45 pm, TUESDAY
Global Engineering Education II
Room 1

Session Chair: Markus Hartono

3:00 – 3:20 pm, Tuesday, September 14
Ts. Dr. Habibah @ Norehan Haron
IEOM Indonesia Conference  PARALLEL SESSIONS  September 13-16, 2021

Associate Professor
Razak Faculty of Technology and Informatics
Universiti Teknologi Malaysia
Kuala Lumpur, Malaysia

3:20 – 3:40 pm, Tuesday, September 14

Markus Hartono
Ir., B.Eng., M.Sc., Ph.D., CHFP, IPM., ASEAN Eng.
DEAN, Faculty of Creative Industries
Associate Professor in Industrial Engineering
University of Surabaya
Surabaya, Indonesia
Certified Human Factors Professional
Associate Professional Engineer
ASEAN Engineer
IABEE Evaluator/Observer
Technical Committee Member of IEA (International Ergonomics Association) on Affective Design
Vice President of PEI (Indonesian Ergonomics Society) for Education and Certification Affairs

3:40 – 4:00 pm, Tuesday, September 14

Professor Roger Hadgraft
Professor of Engineering & IT Professional Practice
UTS: University of Technology Sydney
Sydney, New South Wales, Australia

4:00 – 4:20 pm, Tuesday, September 14

Dr. Aisha Mahmood, Ph.D. Engineering Education
Assistant Professor
Department of STEM Education
Division of Education
University of Education
Township Campus Lahore
Pakistan

4:20 – 4:40 pm, Tuesday, September 14

Dr. Indah Widiastuti
Associate Professor
Faculty of Education &Teacher Training
Universitas Sebelas Maret
Surakarta, Indonesia

3:00 – 5:00 pm, TUESDAY  Business Management  Room 2
Session Chair: Shelvy Kurniawan, Bina Nusantara University, Jakarta Indonesia

ID 478  The Effect of Perceived Service Quality and Brand Trust on the Repurchase Intention of Online Ojek Consumers in the Covid-19 Pandemic: Study on GOJEK Consumers in DKI Jakarta
Cecep Hidayat, Enny Noegraheni Hindarwati, Ghina Salsabilah Gumay, Mellinia Nur Fortuna, Risma Octa Sari, Management Department, BINUS Business School Undergraduate Program Bina Nusantara University Jakarta, Indonesia

ID 508  Supply Chain Improvement of Bearing Lathe Components to Increase Efficiency Using Lean Supply Chain at PT. HRS Indonesia
Idriwal Mayusda, Iveline Anne Marie, Sarah Fahria Andriani, Production System Laboratory, Department of Industrial Engineering, Faculty of Industrial Technology, Trisakti University, Jl. Kyai Tapa No. 1, Jakarta 11440, Indonesia

ID 511  The Acceptance of IoT: Study on Consumer Behavior
Doni Purnama Alamsyah and Sandy Setiawan, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 514  Factors Affecting Cocoa Pricing in West Pasaman District
Peni Shoffiyati, Agricultural Science Study Program, Faculty of Agriculture, Andalas University, West Sumatra, Padang, Indonesia
Melinda Noer, and Rahmat Syahni, Agricultural Socio-Economic Study Program, Faculty of Agriculture, Andalas University, West Sumatra, Padang, Indonesia
Asrinaldi, Social and Political Science Study Program, Faculty of Social and Political Sciences, Andalas University, West Sumatra, Padang, Indonesia

ID 515  Problem Based Learning in Online Class of Mass Transfer Operation Course
Sperisa Distantina and Joko Waluyo, Chemical Engineering Department, Engineering Faculty, Universitas Sebelas Maret, Jl. Ir. Sutami 36 A Surakarta, Indonesia

ID 390  Analysis of Workers’ Physical and Mental Complaints in Conducting Online Meetings in the New Normal Era
Deni Saputra, Furniture Industry Business Management Study Program, Furniture and Wood Processing Industry Polytechnic, Kendal, Indonesia
Merisha Hastarina, Industrial Engineering Study Program, University of Muhammadiyah Palembang, Palembang, Indonesia

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ID 464 Analyzing Factors that Impacts to Organizational Citizenship Behavior as a Part of Strategic Decision in Operation Management
Shelvy Kumiawan, Danang Prihandoko, Christina Natalia, Dwi Natasaari Juwita, Nyoman Radha Astika Putri, Management Department, BINUS, Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 198 The Impact of Dynamic Capability as a Driver of Innovation Ambidexterity on MSMEs’ Performance in Bali, Indonesia
Grisna Anggadwita and Ni Made Apriliya Vidayani, School of Economics and Business, Telkom University, Bandung, Indonesia
Dini Turinpanam Alamanda, Faculty of Economy, Garut University, Garut, Indonesia
Werda Bagus Profityo, School of Communication and Business, Telkom University, Bandung, Indonesia

3:00 – 5:00 pm, TUESDAY    Entrepreneurship and Innovation    Room 3
Session Chair: Annisa Uswatun Khasanah, Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta, Indonesia

ID 205 New Enterprise Sustainability Impact of Undergraduate Businesses in an Entrepreneurship Major
Santika Syaravina, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Erma Lusia, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 207 Marketing Strategy to Introduce and Increase Sales of Korean Aesthetic Cake during the Pandemic: A Case Study of Small Cake Business
Hi Buy Keikey, Anastasia Ichthus, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 208 Digital Marketing Strategy Validation: Measuring Customer Engagements in Fashion Business
Angeline Theodora Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Gabriella Nerissa Arviana, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 209 Marketing Strategy Analysis on Daily Crafts Accessories
Felicia Irene, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Nadya Devina, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Putri Prilicia Setiawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 210 Business Development: Excity Business Analysis – Kpop Themed T-shirt
Jessica Dermawan Foedarsono, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Sheilla Novia, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 211 Digital Branding and Marketing Strategy on Coffee Business
Karel Sebastian Moniaga, Albert Santosa Lawirasa, and Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 212 Create and Develop Italian Food Business Opportunities with a Taste of the Archipelago at Sayeat.co
Aldi Reynaldi, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Maria Cempaka Putri Wijayanto, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 224 Sentiment Analysis on Customer Review of A Logistic Company using Naive Bayes Classifier
Annisa Uswatun Khasanah and Adelia Febriyanti, Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta, Indonesia

3:00 – 5:00 pm, TUESDAY    Engineering Economy    Room 4
Session Chair: Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University

ID 030 Capital Budgeting Models for Investing The Utilization of Lithium Battery Products (Case Study: UNS Battery Factory)
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
Adella Tasya Haryanto, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 120 Set Covering Method Determine The Capacity, Type and Covering Area of The Temporary Landfill Facility in Each Region
Annie Purwani, Utaminingsih Linarti, Fajar Pujo Kesumo, Ekky Armand, Department of Industrial Engineering, Universitas Ahmad Dahlan Yogyakarta, Indonesia

ID 465 The Requirements for Predictive Maintenance Strategy and the Data Required for Successful Implementation

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**ID 671** Does The Bank Soundness Reflect The Firm Value?
Mutia Puspawidowati, Shinta Berliana, Buntoro Heri Prasetyo, Faculty of Economics and Business, Pakuan University, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

**ID 677** Performance of the Markowitz Model Investment Portfolio in Some Mining and Energy Sector Stocks
Sukono, Betty Subartini, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Kalfin, Doctoral Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Sukono, Riaman, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

**ID 678** Calculation of Pension Funds with Entry Age Normal and Attained Age Normal Approaches in the Projected Benefit Cost Method
Sukono, Riaman, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Helen Deora Napitupulu, Undergraduate Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Kalfin, Doctoral Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Sukono, Riaman, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

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**3:00 – 5:00 pm, TUESDAY**

**Room 5**

**Industrial Management**

**ID 347** Health Vulnerability to CoVid-19: A Barangay Level Assessment for Bocae
Buiacan, Alexandria Nicole A., Cailin, Christine Angel Aquino, Bongabong, Samantha Angela Osia, and Ardvin Kester S. Ong
Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines
Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

**ID 348** Indonesian Construction Sectors: An Analysis from the Economic Perspective
Ubaiddillah Zuhdi, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya, East Java, Indonesia
Mochamad Yunus and Yamato Tan, Faculty of Engineering, University of Pakuan, Bogor 16143, West Java, Indonesia
Rizqi Putri Nourma Budianti and Hidayatul Khusnah, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya 60237, East Java, Indonesia

**ID 398** Identification of At-Risk Behaviors among Fuel Station Consumers in Indonesia
Aryo Wibowo, Doctor Candidate, Faculty of Public Health, Universitas Indonesia, Depok, Jawa Barat, Indonesia
Fatma Lestari and Roberia Modjo, Professor and Lecturer, Faculty of Public Health, Universitas Indonesia, Depok, Jawa Barat, Indonesia

**ID 658** Understanding Heterogeneity in CRM Chatbot User Preference
Rifki Ryandra Wijaya and Hasrini Sari, Department of Industrial Engineering, Institut Teknologi Bandung, Bandung 40132, Indonesia

**ID 659** Implementation of Industry 4.0 in developing countries – How to guarantee success?
Junior A. Bennett, Industrial Engineering Department, School of Engineering, University of Technology, Jamaica (UTech Ja)

**ID 664** Use of Blockchain in Vehicle Manufacturing Life Cycle Concept
Supriya Patil, PG Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India
Sandeep Bade, PG Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India
Prof. Dr. Varsha Karandikar, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India
Prof. Sunil Kuber, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India
Anand Umrani, PhD Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India

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**3:00 – 5:00 pm, TUESDAY**

**Room 6**

**Global Business Management Education**

**ID 577** Analysis of Students’ Mathematical Problem-Solving Ability Based on John Dewey’s Theory
Fitria Roskaputri, Mardiyana, Laila Fitriana, Mathematics Education of Graduate School, Sebelas Maret University, Surakarta, Indonesia
ID 578  The Cooperative Learning Challenges in Elementary School during Covid-19: A Report from Teachers in Yogyakarta
Ratna Ainun Fauzani and Anwar Senen, Graduate School, Department of Primary Education, Yogyakarta State University, Jl. Colombo Yogyakarta No.1, Karang Malang, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta

ID 579  Vocational Education in Madrasah Aliyah in Central Java

ID 580  Development of Online Module Based on Discovery Learning to Improve Critical Thinking Ability in Basic Concepts of Science at Primary School Teacher Education
Dewi Nilam Tya, Desi Wulandari, Panca Dewi Purwati, Aldina Eka Ariyani, Siti Maryati Kiptiyah, Department of Elementary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 581  Family Resilience and Mental Health during the COVID-19 Pandemic: Systematic Literature Review
Purwanti Harini, Master Psychology, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah
Dian Veronica Sakti Kaloeti, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 582  Student Mathematical Representation Ability in Their Learning Habits during the Covid-19 Pandemic
Ummu Baroroh, Mardiyana, Laila Fitriana, Mathematics Education of Graduate School, Sebelas Maret University, Surakarta, Indonesia

ID 583  Analysis of Students Critical Thinking Skills on the Limit of Algebraic Functions
Yatik Octaviani, Postgraduate Program of Mathematics Education, Universitas Sebelas Maret, Surakarta, Indonesia
Isnandar Slamet, Faculty of Mathematics and Natural Sciences Training and Education, Universitas Sebelas Maret, Surakarta, Indonesia

September 14, 2021 (Tuesday) - Session: 5:00 – 7:00 pm

5:00 – 7:00 pm, TUESDAY  Global Engineering Education III  Room 1
Session Chair: Dr. Ir. Rahmat Nurcahyo, University of Indonesia

5:00 – 5:20 pm, September 14, Tuesday
Prof. Ir. Dr. Siti Hawa Hamzah
Director of the Engineering Accreditation Department
Board of Engineers, Malaysia (BEM)
Retired Professor
Department of Civil Engineering
UiTM Shah Alam
Malaysia

5:20 – 5:40 pm, September 14, Tuesday
Dr. Ahm Shamsuzzoha
Tenure Track Professor
University of Vaasa
Finland

5:40 – 6:00 pm, September 14, Tuesday
Dr. P.A. Ozor
Head
Department of Mechanical Engineering, University of Nigeria Nsukka
Enugu State Nigeria

6:00 – 6:20 pm, September 14, Tuesday
Dr. Ir. Rahmat Nurcahyo
Professor
Industrial Engineering Department
Head of Quality Assurance and Management System Unit
Faculty of Engineering
University of Indonesia
IEOM Indonesia Conference PARALLEL SESSIONS September 13-16, 2021

Jakarta, Indonesia

6:20 – 6:40 pm, September 14, Tuesday

John Ezzo
CEO
New Image Building Services Inc.
Troy, Michigan, United States

6:40 – 7:00 pm, September 14, Tuesday

Azizah Yusof, PhD
Lecturer
Department of Science and Mathematics Education and Creative Multimedia
Universiti Teknologi Malaysia
Johor Bahru, Malaysia

and

Post-Doctoral Fellow
Faculty of Education
Simon Fraser University (SFU)
British Columbia, Canada

5:00 – 6:45 pm, TUESDAY E-Business and E-Commerce Room 2
Session Chair: Josephine D. German, Mapúa University, Intramuros, Manila, Philippines

ID 257 Global Research Trends and Indonesia's Position in the Development and Application of Electric Trucks: A Literature Review
Benazir Imam Arif Muttaqin, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom, Surabaya, Indonesia
Dominggo Bayu Baskara, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia
Muhammad Miftahul Abidin and Hendrawan Widianto, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

ID 258 Market Feasibility Study for Conversion of Diesel-powered into Electric Truck
Benazir Imam Arif Muttaqin, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia
Dominggo Bayu Baskara, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia
Terresa Indrajani Kusuma and Yudith Iqbal Dika Permana, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

ID 399 A Development of Instrument to Measure the Important of Worker Safety during Design Process of Facility
Saro Hejazi and Jafri Mohd Rohani, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

ID 513 Effect Of Work Life Balance and Work Stress On Employee Performance (Study At Bank BJB Branch Tasikmalaya)
Fylia Pebiyanti, Business Administration, Telkom University, Bandung, West Java, Indonesia, Dr. Alex Winarno, ST., MM, Business Administration Telkom University, Bandung, West Java Indonesia

ID 665 Indonesian Health Insurance: Application of Digital Mobile Technology
Fredi Andria, Meli Deranti, Lisa Mila Sari, Department of Management, Faculty of Economics and Business, Pakuan University, Bogor Indonesia
R. Muhammad Mihradi, Department of Law, Faculty of Law Pakuan University, Bogor Indonesia
Abdul Taib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 672 Perceptions of Instagram Social Media Accounts Users about Curug Cibulao Tourism Objects in Bogor Regency
Muslim, Tiara Puspanindra, Kusuma Dewa Parmungkas, Department of Communication Science, Faculty of Social and Cultural Science, Universitas Pakuan, Indonesia
Henny Suharyati, Department of Administration of Education, Graduate School, Universitas Pakuan, Indonesia
Abdul Taib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia

Cielo Jefferson F. de Castro, Klarence Emmanuel F. Decena, Ken Joshua U. Rebosura, and Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

5:00 – 6:45 pm, TUESDAY Entrepreneurship and Innovation Room 3
Session Chair: Iveline Anne Marie, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti, Jakarta, Indonesia

ID 213 MARKETING STRATEGY FOR NEW BRAND FASHION: A CASE STUDY OF VAMODE FASHION BUSINESS
Angeline Yolanda, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
### 5:00 – 6:45 pm, TUESDAY  
#### Supply Chain Management  
Room 4  
**Session Chair:** Chong Kuan Eng, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Melaka, 76100, Malaysia

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<td>Development of Automatic Wound Healing Level Detection System based on Convolutional Neural Network</td>
<td>Michael Ethan, Winda Astuti, Sofyan Tan, Automotive and Robotics Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia</td>
<td>Yuli Astuti Andriati, Nursery Department, Cilacap Regional General Hospital, Gatot Subroto No.28, Cilacap, Central Java, Indonesia</td>
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<td>Daily Rainfall Forecasting Using Neural Network Autoregression In North Luwu Region</td>
<td>Panji Kendogo, Yusep Suparman, Resa Septiani Pontoh, Department of Statistics, Padjadjaran University, Jatinangor, West Java 45363, Indonesia</td>
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### 5:00 – 6:45 pm, TUESDAY  
#### Halal Supply Chain Panel  
Room 5  
**Session Chair:** Chong Kuan Eng, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Melaka, 76100, Malaysia

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<td>Cost-Volume-Profit Analysis for Uncertain Capacity Planning: A Case Study</td>
<td>Hayati Mukti Ashit, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Ahmad Dahlan, Daerah Istimewa Yogyakarta, 55191 Indonesia</td>
<td>Chong Kuan Eng, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Melaka, 76100, Indonesia</td>
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<td>Organic Food in Supply Chain: Literature Review</td>
<td>Ismi Zahria and Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
<td>Kampus ITS, Sukolilo, 60111, Indonesia</td>
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IEOM Indonesia Conference
PARALLEL SESSIONS
September 13-16, 2021

Chair

Dwi Agustina Kurniawati, M.Eng., Ph.D.
Associate Professor
Industrial Engineering Department
Former Head of Industrial Engineering Department
Head of Faculty Quality System Controller
Faculty of Science and Technology
UIN Sunan Kalijaga, Indonesia

Panelists:

Prof. Suhaiza Zailani
Professor of Supply Chain and Logistics, Faculty of Business and Accountancy
University of Malaya
Kuala Lumpur, Malaysia

Prof. Dr. Marco Tieman
Professor of Supply Chain Management
ELM Graduate School
Help University
Malaysia

Prof. Irwandi Jaswir
Research Coordinator at the Halal Industry Research Center
International Islamic University Malaysia (IIUM)
Kuala Lumpur, Malaysia

Prof. Iwan Vanany
Professor
Department of Industrial and Systems Engineering
Institut Teknologi Sepuluh Nopember (ITS)
Surabaya, Indonesia.

Dr. Mohamed Syazwan Ab Talib
Assistant Professor of Logistics Management, UBD School of Business and Economics
Universiti Brunei Darussalam
Bandar Seri Begawan, Brunei

Prof. Dr. Ir. Yandra Arkeman, M. Eng
Professor of Agricultural Industrial Technology
IPB University
Bogor, Indonesia

5:00 – 6:45 pm, TUESDAY  Global Business Management Education  Room 6
Session Chair: Dr. Imam Shofwan, Semarang State University, Indonesia

ID 584  Exploring the Kindergarten Preparedness in Facing New Normal Education Era
I Wayan Suyanta, Lecturer, Early Childhood Education at State Hindu University I Gusti Bagus Sugriwa Denpasar, Bali - Indonesia
Kadek Dwi Wahyuni, Education Quality Analyst at Early Childhood and Community Education Development Center, Ministry of Education and Culture of the Republic of Indonesia

ID 585  Cognitive Flexibility Categorization in Moral Dilemma Decision
Hartanto Hartanto, Universitas Gadjah Mada, Faculty of Psychology

ID 586  Life Skills Education through the Heroic Values of the King of Kasunanan and the King of Mangkunegaran in Surakarta Folktales
Nugraheni Eko Wardani, Faculty of Teacher Training and Education, Sebelas Maret University, Jl. Dr. Setiabudhi No. 229, Kota Bandung, Jawa Barat 40154, Indonesia

ID 587  Najwa Syihib's Speech Strategy in Mata Najwa Show on Metro TV From the Perspective of Community Education
Lusi Komala Sari, Indonesian Language and Literature Education Department, Sultan Syarif Kasim State Islamic University, HR. Soebbrantas Panam Km. 15 No. 155, Riau, Indonesia
Syihabuddin and Vismaia S. Damaianiti, School of Postgraduates, Indonesia University of Education, Dr. Setiabudhi 229, Bandung, Indonesia

ID 588  The Analysis on The Transmission Pattern of Slawatan Pawijian as The Form of Cultural Conservation in Tamanasri Pacitan
Deasylinna da Ary and Kurniana Bektininggih, Universitas Negeri Semarang, Jl. Beringin Raya No. 15 Wonosari Ngaliyan Semarang, Indonesia

ID 589  Mapping Science Teachers’ Pedagogical Content Knowledge In Classroom Interaction Through Transcript-Based Lesson Analysis: A Case Study
Indra Budiman, Anna Permanasari, Ida Kaniawati, and Iwa Lukmana, Science Education Program, School of Postgraduate Studies, Universitas Pendidikan Indonesia, Jl. Dr. Setiabudhi No. 229, Kota Bandung, Jawa Barat 40154, Indonesia

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September 14, Tuesday, 7:00 – 9:00 pm
Women in Industry and Academia (WIIA) Panel

Panel Chair
Dr. Ir. Lina Gozali
Lecturer
Department of Industrial Engineering
Tarumanagara University
Jakarta, Indonesia

Panel Speaker 1
Ms. Dawn Ringrose, MBA, FCMC
Principal
Organizational Excellence Specialists Inc.
Courtenay, British Columbia, Canada
Board Member with the Global Benchmarking Network
Advisory Board Member with the ISCM Foundation
Executive Team Member with the Organizational Excellence Technical Committee QMD-ASQ

Panel Speaker 2
Nancy Nouaimeh
Assistant Vice President- Quality, Safety and Performance Excellence
Abela & Co LLC
Dubai, United Arab Emirates
ASQ EMEA Region Director
Advisory Board Member with the ISCM Foundation

Panel Speaker 3
Tania Endah Budhi, ST, MBA
Senior VP – Head of Marketing Strategy & Customer Experience
PT. Adira Dinamika Multi Finance, Tbk. (ADIRA FINANCE)

Panel Speaker 4
Dr. Ho Hwi Chie, M.Sc.
Dean, Binus Aso School of Engineering
Bina Nusantara University (Binus)
Tangerang, Banten, Indonesia

Panel Speaker 5
Dr. Hetty Karunia Tunjungsari, S.E., M.Si.
Management Department
Faculty of Economics
Universitas Tarumanagara
Jakarta, Indonesia

Panel Speaker 6
Trish Wilson
Founder & Director
Global Improvement Network Catalyst
Auckland, New Zealand

September 15, 2021 (Wednesday) - Session: 8:00 am – 12:00 pm
Keynotes
8:00 am, Tuesday, September 14 – Conference Co-Chair Remarks – Zoom Meeting Rooms 1

8:20 am, Wednesday, September 15 – Keynote VI: (Opening Keynote) – Zoom Meeting Rooms 1

Ahad Ali, Ph.D.
Associate Professor
Director, Bachelor of Science in Industrial Engineering
Director, Master of Science in Industrial Engineering
Director, Graduate Certificate in Lean Six Sigma
Director, Smart Manufacturing and Lean Systems Research Group
Coordinator, Siemens Electro-Matic Industrial Engineering Lab
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, MI 48075, USA
Executive Director – IEOM Society International

09:00 am, Wednesday, September 15 – Keynote Speaker VII: – Zoom Meeting Rooms 1

Dr. Eng. Koichi Murata
Head of Operations & Production Management Laboratory
Professor at the Department of Industrial Engineering and Management
College of Industrial Technology
Nihon University, Japan

09:40 am, Wednesday, September 15 – Keynote Speaker VIII: – Zoom Meeting Room 1

Dr. Rajesh Piplani
Associate Professor, The School of Mechanical and Aerospace Engineering,
Systems and Engineering Management division,
Nanyang Technological University, Singapore

10:20 am – BREAK

10:40 am, Wednesday, September 15 – Keynote Speaker XIV: – Zoom Meeting Room 1

Bertha Maya Sopha, Ph.D.
Associate Professor and Former Director of Industrial Engineering
Universitas Gadjah Mada, Indonesia

11:20 am, Wednesday, September 15 – Keynote Speaker X: – Zoom Meeting Room 1

Prof. Anicia Peters
Pro-Vice Chancellor: Research, Innovation & Development
Human Computer Interaction Researcher
University of Namibia, Windhoek, Khomas, Namibia

12:00 – 1:00 pm Lunch Break

September 15, 2021 (Wednesday) - Session: 1:00 – 3:00 pm
1:00 – 3:00 pm, WEDNESDAY | Industry Solutions | Room 1
---|---|---
Session Chair: Adnan Hassan, UTM

1:00 pm – 1:20 pm, Wednesday, September 15

Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed.
Director, Industrial Engineering Department
Engineering School
University of Costa Rica
San Jose, Costa Rica

1:20 pm – 1:40 pm, Wednesday, September 15

Adnan Hassan, Ph.D.
Associate Professor – Industrial Engineering
School of Mechanical Engineering
Universiti Teknologi Malaysia
Johor Bahru, MALAYSIA

1:40 pm – 2:00 pm, Wednesday, September 15

Dr. Fanar Shwedeh
Assistant Professor
Information Technology Management
City University College of Ajman
Dubai, United Arab Emirates
Innovation and Smart City Performance

2:00 pm – 2:20 pm, Wednesday, September 15

Dr. Guilherme Luz Tortorella
Professor in Industrial Engineering
University of Melbourne
Australia

“Innovation of Industry 4.0 into Lean Management”

2:20 pm – 2:40 pm, Wednesday, September 15

Dr. Cyrus Hoseini
Senior Director of RCM Analytics with AccentCare
Former V.P. of Quality and Analytics Services with QualMine
Sacramento, California, USA

1:00 – 3:00 pm, WEDNESDAY | Human Factors and Ergonomics Competition | Room 2
---|---|---
Session Chair: Judging Team

ID 014 “Different Shapes of Homemade Solar Modules”
Keerada Keerathittayakorn, Satriwithaya School, Bangkok, Thailand

ID 141 Business Feasibility Analysis: Multifunction Bus HandGrip
Felita Yulianti1, Kevin Ravenska2, Jesica Laurensia3, Lina Gozali4, Wilson Kosasih5,
Carla Olyvia Doaly6, Agustinus Purna Irawan7, Harto Tanujaya8, Frans Jusuf Daywin9
1,2,3,4,5,6,9 Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia 11440
7,8Mechanical Engineering Department, Universitas Tarumanagara, Indonesia 11440
Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 260 The Designing of Swivel Chair For Bending Machine Work Station At Pt Graha Adikarya Logam
Andre Agashi1, Frans Yusuf Daywin2, Adianto3, Agustinus Purna Irawan4, Lina Gozali, Industrial Engineering Department, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta

ID 264 Redesign of Smart Trash Bin with Reverse Engineering and VDI 2221 Method
Christopher Gunawan1, I Wayan Sukania2, Frans Jusuf Daywin3, Lina Gozali4, Wilson Kosasih5, Industrial Engineering Department, Universitas Tarumanagara, Jakarta

ID 382 Ergonomic Assessment on the Mental Workload of Work from Home Employees
Sheeno F. Dasmariñas, John Margel A. Otalla, Kimberly Joy H. Perea, 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 406 Application of Proper Manual Material Handling Techniques, Six Sigma Target Equation, and NIOSH Lifting Equation for the Improvement of the Level of Safety of the Workers of AMG Rice Dealer in the Workplace
Gavin Frederick A. Bautista, Edmar M. Garcia, Students, Industrial Engineering Department, Technological Institute of the Philippines - Manila
ID 266  Modification Design of Shredder Mask with Disinfectant Sprayer By Using Reverse Engineering And Vdi 2221 Methods
Immanuel Beckham, Frans Jusuf Daywin, I Wayan Sukania, Lithrone Laricha Solomon, Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, Jakarta

ID 112  Conceptual Model of the Dynamic System for Technology Transfer Office (TTO) Intervention in Accelerated Commercialization of Research Results
Darminto Pujotomo, Student, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia
Lecturer, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia
yed Ahmad Helmi Syed Hassan, Azanizawati Ma’aram, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, 81310, Johor, Malaysia
Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia, President, IEOM Indonesia Chapter

ID 148  Reliability and Availability Evaluation of Boiler Critical Component of Steam Power Plant using Monte Carlo Simulation
Iring Pamungkas, Heri Tri Irawan, Sofiyanurriyanti, Gaustama Putra, Muzakir and Fitriadi, Industrial Engineering Department, Engineering Faculty Universitas Teuku Umar, Alue Peunyareng Street, Meulaboh, Aceh Barat, 23615, Indonesia

ID 157  Assessment of Laboratory Occupational Safety and Health at Engineering Faculty of Diponegoro University
Heru Prastawan, Manik Mahachandra, Dita Rizkiana, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Central Java 50269, Indonesia

ID 165  The Effect Of Financial Literation On Investing In Indonesia Capital Market (Study on College Students in Bandung City, Indonesia)
Budi Rustandi Kartawinata, Jalan Terusan Buah Batu, Bandung 40257, Indonesia, Business Administration, Kukuh Panuntun Wicaksono, Jalan Terusan Buah Batu, Bandung 40257, Indonesia, Business Administration
Aditya Wardhana, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Business Administration, Aidi Akbar, Politeknik Pikes Bandung, Jalan Jend. Gatot Subroto No. 301, Bandung 40274, Indonesia

ID 222  Mapping Engineering Tools to Improve Manageability of Supply Chain Sustainability Risks
Agung Sutrisno, Department of Mechanical Engineering, Sam Ratulangi University, Manado, Sulawesi Utara 95115, Indonesia
Vikas Kumar, Bristol Business School, University of the West of England, Bristol, United Kingdom
Mohammad Asjad, Department of Mechanical Engineering, Jamia Millia Islamia University, New Delhi, Delhi 110025, India
Shinta Virdhian, Balai Besar Logam dan Mesin (BBLM), Bandung, Indonesia
Charles Purnuhisung, Department of Mechanical Engineering, Sam Ratulangi University, Manado, Sulawesi Utara 95115, Indonesia

ID 247  Sea Toll Services Criteria Cluster Analysis to Minimize Price Disparity of Indonesian Eastern Areas amidst The Covid-19 Pandemic
L. Tri Wijaya, N. Kusuma, Iwhan Hamdala, Amanda Nur Cahyawati, Lecturer at the Department of Industrial Engineering, Universitas Brawijaya Malang, 65145, Indonesia
Giyazi Azka Hafiyyan, Ega Ulaya H, Dea Damaris, Muhammad Rifaqi, Firyal Azizah, Undergraduate Industrial Engineering Student of Universitas Brawijaya Malang, 65145, Indonesia
I G. N. Sumanta Buana, Lecturer at the Department of Marine Transportation Engineering, ITS, Surabaya, 60111, Indonesia

ID 430  Marketing and Sustainability: The Concept of Green Awareness of Consumer
Doni Purnama Alamsyah, Satrio Matin Utama, Bina Nusantara University, Indonesia

ID 510  Impact Assessment on the DOST Small Enterprise Technology Upgrading Program (SETUP) – assisted MSMEs in Central Luzon using Analytic Hierarchy Process (AHP) Model
Michael John S. Rivera, School of Information Technology, Mapua University Makati City, Philippines, John Paul Q. Tomas, School of Information Technology, Mapua University, Makati City, Philippines

ID 516  A Strategy to Realize Soybean Self-Sufficiency: A System Dynamics Approach (A Case in Central Java Province, Indonesia)
Nancy Oktyajati, Department of Industrial Engineering, Universitas Islam Batik, Surakarta, Indonesia, Industrial Engineering and Techno-economics Research Group, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam and Wahyudi Sutopo, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 155  House of Risk to Mitigate Clove Commodity Supply Chain Risk
TERMINAL 3 SOEKARNO-HATTA AIRPORT

Kahfi Akbar Ramadhan, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

Magister Management Program, Telkom University, Bandung, Indonesia

Siska Noviaristanti, S.Si., M.T., Ph.D., Lecturer, Digital Business Management Study, Faculty of Economics & Business, Head of Department, Gadang Ramantoko, Lecturer, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

Rinaldi Apriza Marpaung, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

ID 305
Determining the Marketing Strategy of Tenant Food & Beverages Using Association Rules at the Boarding Lounge International

Universiti Teknologi Malaysia, Johor, Malaysia

Noordin Mohd Yusof, Azanizawati Ma’aram, Nor Hasrul Akmal and Harisun Yaakob, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Mara, Penang, Malaysia

Bunhamah Robiatul Adawiyyah and Dwi Agustina Kurniawati, Optimization, Operation Research and Industrial System Research Group (2ORIS-RG), Industrial Engineering Department, University of Indonesia, Jakarta, Indonesia

Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

Nazaruddin, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Dini Wahyuni, Pd.D Student at Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

ID 705
Risk Management for Frozen Food Halal Supply Chain (an Indonesian Company Case Study)

Universitas Teuku Umar, Alue Peunyareng Street, Meulaboh, Aceh Barat, 23615, Indonesia

Heri Tri Irawan, Iing Pamungkas, Gaustama Putra, Sofyanurriyanti, Muzakir and Fitriadi, Industrial Engineering Departement, Engineering Faculty Universitas Teuku Umar, Alue Peunyareng Street, Meulaboh, Aceh Barat, 23615, Indonesia

ID 239
Quality Function Deployment (QFD) Approach for Digitalization of Teluk Lamong Terminal Services System in Support of Indonesia’s

L. Tri Wijaya N. Kusuma, Amanda N. Cahyawati, Sylvie I. Kartika Sari, Ahmad M. Iqbal, Deandra Denidaulia, Mohammad R. Kurnia, Nanda R. Amalia, Tazkiya A. Hanan, Irmala, Oktaviana Department of Industrial Engineering, Faculty of Engineering, Universitas Brawijaya, Malang, Indonesia

ID 291
Possible Causes of HT Burn-Ups on Passenger Trains in South Africa

Junior Mabiza and Charles Mbohwa, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park, Johannesburg, 2092, South Africa

Mbali Myeni, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park, Johannesburg, 2092, South Africa

ID 705
Risk Management for Frozen Food Halal Supply Chain (an Indonesian Company Case Study)

Bunhamah Robiatul Adawiyyah and Dwi Agustina Kurniawati, Optimization, Operation Research and Industrial System Research Group (2ORIS-RG), Industrial Engineering Department, University of Indonesia, Jakarta, Indonesia

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ID 305
Determining the Marketing Strategy of Tenant Food & Beverages Using Association Rules at the Boarding Lounge International

Terminal 3 Soekarno-Hatta Airport

Kahfi Akbar Ramadhan, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

Magister Management Program, Telkom University, Bandung, Indonesia

Siska Noviaristanti, S.Si., M.T., Ph.D., Lecturer, Digital Business Management Study, Faculty of Economics & Business, Head of Department, Gadang Ramantoko, Lecturer, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

Rinaldi Apriza Marpaung, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

ID 305
Determining the Marketing Strategy of Tenant Food & Beverages Using Association Rules at the Boarding Lounge International

Universiti Teknologi Malaysia, Johor, Malaysia

Noordin Mohd Yusof, Azanizawati Ma’aram, Nor Hasrul Akmal and Harisun Yaakob, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Mara, Penang, Malaysia

Bunhamah Robiatul Adawiyyah and Dwi Agustina Kurniawati, Optimization, Operation Research and Industrial System Research Group (2ORIS-RG), Industrial Engineering Department, University of Indonesia, Jakarta, Indonesia

Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

Nazaruddin, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Dini Wahyuni, Pd.D Student at Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

1:00 – 3:00 pm, WEDNESDAY
Sustainability in Supply Chain, and Enterprise
Room 5

Session Chair: Siti Mahsanah Budijati, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

ID 009
Analysis of the Application of Circular Supply Chain in Beverage Packaging Industry

Zahrah Aulianti, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

Taufik Roni Sahroni, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

ID 015
An Integrated Inventory Model with Electric Vehicles, Freight Costs, and Stochastic Lead-time

Ivan Darma Wangsa, Ivan Vanany, and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, 60111, Indonesia

ID 026
Industry 4.0 Technologies and Sustainable Warehousing - A Systematic Literature Review

Minh Huy Phan, School of Business and Law, Central Queensland University, Melbourne, Australia, Imran Ali, School of Business and Law Central Queensland University, Melbourne, Australia

ID 095
Quality Function Deployment for the Improvement of the attributes from a Hybrid Micro Hydro-Solar Generator

Rosnani Ginting and Aulia Ishak, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20155, Indonesia

ID 098
Analysis of Halal Supply Chain in Chicken Meat Products using Human Error Perspective

Dini Wahyuni, Pd.D Student at Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Nazruruddin, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

Rinaldi Apriza Marpaung, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

ID 093
Analysis of driving and inhibiting factors for managing food waste in restaurants,

Siti Mahsanah Budijati, Fatma Herming Astuti, and Wandhansari Sekar Jatiningrum, Industrial Engineering Department, Faculty of Industrial Technology, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

ID 285
Modeling and Simulation of COVID-19 with Dynamic Systems to Assist Policy Formulation and Strategies for the Prevention and Mitigation of the COVID-19 Spread in Medan

Melilita Tryana Sembiring, Sawaluddin, Anggi Ridho Habibie, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, Indonesia

Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia, President, IEOM Indonesia Chapter

1:00 – 3:00 pm, WEDNESDAY
Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 523
Design Of Elderly Reading Chair To Decrease Musculoskeletal Disorders By Using Quality Function Deployment (QFD) Method

Beta Arya Ash shidik, Industrial Engineering Postgraduate Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

ID 523
Design Of Elderly Reading Chair To Decrease Musculoskeletal Disorders By Using Quality Function Deployment (QFD) Method

Beta Arya Ash shidik, Industrial Engineering Postgraduate Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

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2nd Asia Pacific Conference
September 15, 2021 (Wednesday) - Session: 3:00 – 5:00 pm

03:00 – 03:20 pm, Wednesday, September 15

Shrikant Ket
Engineering Manager
Eaton
Pune, Maharashtra, India

03:20 – 03:40 pm, Wednesday, September 15

Eng. Ali Doulatabadi
Founder & Managing Director
D&M Electronics CO. (L.L.C.)
Dubai, United Arab Emirates

03:40 – 04:00 pm, Wednesday, September 15

Dr. Sha’ri Mohd Yusof
Professor - Quality Engineering and Lean System
Graduate School of Business Administration (GSBA)
Meiji University, Tokyo, Japan
Former Dean of Razak Faculty of Technology and Informatics (UTM Razak)
Universiti Teknologi Malaysia
Kuala Lumpur, Malaysia

04:00 – 04:20 pm, Wednesday, September 15

Dr. Khurram Nawaz
Senior Advisor, Management Systems
Emirates Nuclear Energy Corporation
Abu Dhabi, United Arab Emirates
Director for Canadian Institute of Organizational Excellence (CIOE) Inc
Calgary, Canada

4:20 pm – 4:40 pm, Wednesday, September 15

Yun-Chia Liang, Ph.D.
Professor and Chair
Department of Industrial Engineering and Management
Yuan Ze University
Taoyuan, Taiwan

3:00 – 5:00 pm, WEDNESDAY  Sustainability in Supply Chain and Enterprise  Room 2
Session Chair: Petrus Setya Murdapa, Widya Mandala Surabaya Catholic University (UKWMS), Madiun, Indonesia

ID 234  Layout Design of Distributor Warehouse PT. X in Sidoarjo
Abdur Rohim Achmad, Indri Hapsari, Dina Natalia Prayogo, Industrial Engineering, University of Surabaya, Indonesia

ID 500  Quality Improvement on Welding Process of Colt Diesel Cabin Using Six Sigma Method
Rina Fitriana, Debbie Kemala Sari, and Salshabilia Medina, Quality Engineering Laboratory, Department of Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia

ID 396  A Strategy Design for Logistic Company Using Blue Ocean Strategy
Agus Mansur, Teknik Industri, Universitas Islam Indonesia, Universitas Islam Indonesia
Naufal Ghalia, Universitas Islam Indonesia

ID 054  A Location and Allocation Model in Determining Charging Station Facilities Using Facility Fixed and Variable Cost: A Case Study
Bekti Nugrahadi, Master Program of Industrial Engineering Department, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia
Muhammad Hisjam, Department of Industrial Engineering, Head of Logistics and Business System Laboratory, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 421  Some Forms of Single Stage Queuing Systems Resulted from The Decomposition of Complex Supply Chain
Parama Kartika Dewa, Department of Industrial Engineering, Universitas Alma Jaya Yogyakarta, Yogyakarta, Indonesia
Petrus Setya Murdapa, Department of Industrial Engineering, Widya Mandala Surabaya Catholic University (UKWMS), Madiun, Indonesia

ID 329  Analisis Sistem Antrian Pada Halte Transjakarta Indosiar
Fitra Lestari, Akhmad Nidhom, Agusthina, Inez Kusuma, Teknik Industri, Fakultas Teknik, Universitas Pembangunan Nasional Veteran Jakarta Jalan RS Fatmawati, Pondok Labu, Jakarta Selatan

3:00 – 5:00 pm, WEDNESDAY  Energy, Sustainability, and Green Systems  Room 3
Session Chair: Muhammad Hisjam, Universitas Sebelas Maret, Surakarta, Indonesia

ID 013  Water Washing for Upgrading Fuel Characteristic of Bamboo for Energetic Utilization
Natasya Alief Zafiria, Faculty of Engineering and Technology, Industrial Engineering, Sampoerna University, South Jakarta, Indonesia
Jeanne Svensky Ligte, M.Eng., Head of Smart Production and Supply Chain Laboratory, Industrial Engineering Lecturer, Faculty of Engineering and Technology, Sampoerna University, Indonesia

ID 063  Analysis of Economic Benefits of Production of Active Ingredients NaNi0, 5Ti0,5O2 Sodium Cathode from Salt (Laboratory Scale)
Ahmad Tito Prabowo, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Laboratory 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, 2)Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 066  Optimization of Network Design for Charging Station of Electric Car with Center of Gravity Method: A Case Study
Dian Ahmad Pratama Bunayah Sudian, Silvi Istriqomah, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

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<td><em>ID 341</em> Development of Chocolate Beverage Products by Considering Consumer Preferences*</td>
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<td><em>ID 427</em> Maintenance Management Analysis and Risk Assessment Using Failure Mode &amp; Effects Analysis (FMEA) Method on HD 785-7 Unit at PT. United Tractors*</td>
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<td><em>ID 083</em> Proposed Improvement Of The Working System Using A Lean Manufacturing Approach In Furniture Factories (Case Study Pt. Salim Selamat Sempurna)*</td>
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Quality Control Analysis Using DMAIC Method and DPMO Calculations on Low Voltage Cable Production (Case Study at PT XYZ Jakarta)
Felita Yulianti and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

FMEA Method for Identifying the Risk of Failure the Boss 05k Rotor in Machining Production Process
Jesica Laurensia and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

Investigating the Overall Equipment Effectiveness (OEE) of Die Casting Injection Machines using Productivity Analysis
Klint Allen A. Mariñas, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Yung-Tsan Jou, Chairman, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Riana Magdalena Silitonga, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan

Assessment Comfortability of Climbing Stairs and the Height of Building Stair
Lovely Lady, Industrial Engineering Department – University of Sultan Ageng Tirtayasa. Jl. Jend. Sudirman km 3, Cilegon

Review of Objective and Subjective Methods for Rear-End Collision Risk Assessment
Fatin Saffanah Didin, Hardianto Iridiastadi, Ari Widyanti, Industrial Engineering and Management Department, Institut Teknologi Bandung, Bandung, Indonesia

Useability Analysis of Tembang Sekar Alit Learning (SekARAI) Applications Using The Human Computer Interaction (HCI) Model In Bali Students
Made Agung Raharja, Informatic Department of Udayana University, Bali, Indonesia
Susy Purnawati, I Putu Gede Adiatmika, and I Nyoman Adiputra, Medicine Faculty of Udayana University, Bali, Indonesia
Ida Bagus Alit Swamardika, Electrical Engineering of Udayana University, Bali, Indonesia

Factors Causing Train Driver Fatigue: A Systematic Review
Sevty Auliani and Hardianto Iridiastadi, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia

Human-Side Emotional Service Design for Experience-Centric Amusement Park
Markus Hartono, I Made Ronyastra, Tania Aisyah Faqin, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya 60293, Indonesia

A Conditional Process Analysis on the Relationship between Work-Life Balance, Well-being, Job Satisfaction, and Work from Home Practice during the COVID-19 Pandemic
Auditya Purwandini Sutarto, Department of Industrial Engineering, Universitas Qomaruddin Gresik, Jln Raya Bungah 01, Gresik, Indonesia
Titis Wijayanto, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Jln Raya Teknika, Yogyakarta, Indonesia
Irma Nur Afiah, Department of Industrial Engineering, Universitas Muslim Indonesia, Makassar, Indonesia

University Students’ Mental Workload and Sleep Quality due to Online Lecture during Covid-19 Pandemic
Lina Dianati Fathimahhayati, Risky, Suwardi Gunawan, Industrial Engineering Department, Engineering Faculty, Mulawarman University, Jalan Sambaliung No. 9, Samarinda, East Borneo, Indonesia
5:40 pm – 6:00 pm, Wednesday, September 15
Dr. Ir. Ira Setyaningsih, ST., M.Sc., IPM
Industrial Engineering Department
Faculty of Science and Engineering
Universitas Islam Negeri Sunan Kalijaga
Indonesia

6:00 pm – 6:20 pm, Wednesday, September 15
Dr. Gajanand Gupta, Ph.D.
Assistant Professor (Sr.)
School of Mechanical Engineering
Vellore Institute of Technology, Chennai Campus
Chennai, Tamil Nadu, India

6:20 pm – 6:40 pm, Wednesday, September 15
Bob Doering, MBA
Quality Engineer
Superior Roll Forming
Quality Engineering Professional
Expert in CorrectSPC for Precision Machining – Trainer, Consultant
Lagrange, Ohio, United States

6:40 pm – 7:00 pm, Wednesday, September 15
Prof. Leonardo Frizziero
Associate Professor
Department of Industrial Engineering
Alma Mater Studiorum – Università di Bologna
Bologna, Italy
Integration between the Design Methodologies and the Company Organizations

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5:00 – 6:45 pm, WEDNESDAY Engineering Education Room 2
Session Chair: Ikrom Kambarov, Turin Polytechnic University in Tashkent

ID 028 Supply Chain Performance Analysis Using Model Supply Chain Operations Reference (SCOR®) 11.0: A Case Study for Educating Engineering Student
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
Anis Maisyarah, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 226 Development a Conceptual Model for COVID-19 Pandemic and Total Government Expenditure
Avinda Jihan Ardiani, Aries Susanty, Singgih Saptadi, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 369 The Effect Of External Auditor Quality, Profit Quality, Fixed Asset Intensity, Liquidity, And Corporate Risk On Tax Aggressiveness Of Property And Real Estate Companies
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, Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia, Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 391 Kansei Engineering and Design Thinking Methodology for Product/Service Design
Markus Hartono, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya 60293, Indonesia

ID 517 The Application of Cooperative Project-Based Learning in Engineering Drawing Course to Enhance Students’ Teamwork Skill
Lina Indawati, Department of Civil Engineering, Faculty of Engineering, Universitas Sebelas Maret, 57126, Surakarta, Indonesia

ID 070 Distribution Delivery Services of Ornamental Plant (in Malang Raya) by Developing and Implementing A Global Business Strategy: The Company J&T Express VS JNE Express
Maya Revanola Zainida, Department of Industrial Engineering, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
ID 224  Reforming CAD/CAM and CNC Machining Course by Using “Process-oriented” for Higher Education Institutes (HEI’s)
Ikrum Kamborov, Abror Hoshimov, Jamshid Inoyatkhojaev, Department of Mechanical and Aerospace Engineering Turin Polytechnic University in Tashkent, Kichik khalka yuli st.17, 100095 – Tashkent – Uzbekistan

ID 384  Sustainability Awareness and Attitude to Sustainability among Entrepreneurial Students: Cultural Analysis and Level Measurement
Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480, Benjamin Castello, New World Together, Bali, Indonesia

5:00 – 6:45 pm, WEDNESDAY  Human Factors and Ergonomics
Session Chair: Firdaus Ashari, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret

ID 102  A Knowledge Sharing Behavior Model and Its Effect on Employees’ Innovative Work Behavior
Mohammad M’radj Isnaini1, Dina Nadhirah, Iwan Irwawan Wiratmadja, Industrial Engineering Department, Institut Teknologi Bandung, Bandung 40132, Indonesia

ID 103  A Model of Multiple Items Batch Scheduling for m Batch Processors Flowsheet to Minimize Total Actual Flowtime
Nita P.A Hidayat, Industrial Engineering, Bandung Islamic University, Bandung, Indonesia, Wisnu Aribowo, Abdul Hakim Halim, Industrial Engineering Department, Bandung Institute of Technology, Bandung, Indonesia

ID 108  Investigating Indonesian Households Behavioural Intention Toward Residential Photovoltaic
Nurwidiana, Bertha Maya Sopha and Adhika Widyaparaga, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada, Indonesia

ID 160  The Design of a Leather Cut Tool for The Production of Skin Crackers Using the Quality Function Deployment (QFD) Method - A Case Study
Gaustama Putra, Sofiyanuruniyanti, ling Pamungkas, and Heri Tri Irwana, Industrial Engineering Department, Engineering Faculty, Universitas Teuku Umar, Alue Peunyareng Street, Meulaboh, Aceh Barat, 23615, Indonesia

ID 428  Supply Assessment Implementation Chain Risk Using Failure Mode and Effect Analysis (FMEA) on UT Guaranteed Product Support (UT GPS) at PT United TractorsTasya Putri Salsabilla, Industrial Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia, Fransisca Dini Ariyanti, Industrial Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia

ID 106  Testing Usability of Syringe Adapters and Conventional Syringe in Healthcare Workers
Firdaus Ashari, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia
Bambang Suhardi, Laboratory of work system design and ergonomics, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Novie Susanto, Department of Industrial Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Naniang Wiyono, Department of medicine, Faculty of Medicine, Universitas Sebelas Maret, Surakarta, Indonesia

5:00 – 6:45 pm, WEDNESDAY  Operations Management
Session Chair: Doni Purnama Alamsyah, Bina Nusantara University, Indonesia

ID 018  Assessing the Impact of Covid-19 Lockdown and Social Distancing Measures on the Supply Chain of the Brewery Industry in Sierra Leone: Case Study of the Sierra Leone Brewery Limited (SLBL)
Alpha Umaru Bah and I. Nyoman Pujawan, Department of Industrial Systems & Engineering, Institut Teknologi Sepuluh Nopember ITS, Surabaya, Indonesia.

ID 019  The Role of Supply Chain Management in Enhancing Customer Satisfaction in The Banking Industry: A Case Study of Sky Bank Sierra Leone Limited
Michael Komah and I Nyoman Pujawan, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia.

ID 081  Strategic Market Planning Using SWOT Approach for Robotic Post-Stroke-Rehabilitation Product
Berty Dwi Rahmawati, Department of Industrial Engineering, Faculty of Industrial Engineering, Universitas Pembangunan Nasional Veteran Yogyakarta, Herianto, Department of Industrial and Machine Engineering, Faculty of Engineering, Universitas Gadjah Mada

ID 154  Kano Lean Six Sigma (KLSS) for Improving Service Quality at Education Technology (EdTech) Startups
Moses Laksono Singgih, Reza Aulia Akbar, and Okto Abdillah, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), ITS Campus, Keputih-Sukolilo, Surabaya, Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Gidion P. Adirinekso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

ID 298  Lean – Agile Workforce Model for Traffic Enforcers
Joshua M. Blas, Researcher, Junior Content Development Executive, Environmental Compliance Consultants Int’l Corp., Makati City, Philippines
Jean Loiriane B. Ardales, Researcher, Purchasing Associate, AllValue Holdings Inc., Muntinlupa City, Philippines
Venusmar C. Quevedo, PIE, ASEAN Eng., Research Adviser, Vice President for Administration, Adamson University, Maida A. Dela Cueva, PIE, ASEAN Eng., Research Co-Adviser, Professor, Industrial Engineering Department, Adamson University, Philippines

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ID 506 Consumer Trust and Online Purchase Decision Study of Consumer Behavior on E-Commerce
Indriana and Doni Purnama Alamsyah, Bina Nusantara University, Indonesia

5:00 – 6:45 pm, WEDNESDAY Renewable Energy Panel Room 5

Chair
Dr. Jafri Mohd Rohani
Senior Lecturer
School of Mechanical Engineering
Faculty of Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Indonesia

Panel Members
Dr. Dia Milani
research scientist and team leader
Commonwealth Science and Industrial Research Organization (CSIRO)
New South Wales, Australia

Dr. Dia Milani
research scientist and team leader
Commonwealth Science and Industrial Research Organization (CSIRO)
New South Wales, Australia

Associate Professor Ali Abbas
Associate Professor Director – Waste Transformation Research Hub
Chair – Australian Circular Economy Conference
School of Chemical and Biomolecular Engineering
Faculty of Engineering and Information Technologies
The University of Sydney
Sydney, NSW, Australia

Dr. Dia Milani
research scientist and team leader
Commonwealth Science and Industrial Research Organization (CSIRO)
New South Wales, Australia

Associate Professor Ali Abbas
Associate Professor Director – Waste Transformation Research Hub
Chair – Australian Circular Economy Conference
School of Chemical and Biomolecular Engineering
Faculty of Engineering and Information Technologies
The University of Sydney
Sydney, NSW, Australia

5:00 – 6:45 pm, WEDNESDAY HF Room 6

Session Chair: Dr. Manik Mahachandra, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 567 Ergonomic Risk Assessment of Musculoskeletal Disorders (MSD) During Chest Compression in Three Different Position In A Rescuer Performing Paediatric Basic Life Support
Amrita Kaur Seera Harapajan Singh, Shaik Farid Abdull Wahab, Department of Emergency Medicine, School of Medical Sciences, Health Campus, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Hospital Universiti Sains Malaysia, Health Campus, Universiti Sains Malaysia, Kubang Kerian, Kelantan
Rohayu Othman, Kolej Kemahiran Tinggi MARA, Lebuhraya Pasir Mas Lubok Jang, Pasir Mas, Kelantan, Malaysia

ID 595 The Implementation of the Tri Datu Concept of Socio-Cultural Ergonomic Oriented to Maintain Entrepreneurial Attitude of Workers on The Covid-19 Pandemic
I Made Sutajaya, Desak Made Citrawathi, Ni Putu Sri Arnita, Ni Luh Putu Mia Lestari Devi, Ni Made Citra Aryani, Biology Education Study Program, Faculty of Mathematics and Natural Sciences, Undiksha, Biomedical Engineering Study Program, Bali Dwipa University Denpasar Bali, Occupational Health and Safety Study Program, Bali International University Denpasar Bali

ID 596 Ergonomic Risk Assessment of Musculoskeletal Disorders During Simulated Endotracheal Intubation Using Direct Laryngoscopy and Video Laryngoscopy Among Doctors in Emergency and Trauma Department of a Teaching Hospital
Mohd Anas Mohd Nor, Emergency and Trauma Department, Hospital Sungai Buloh, 47000, Selangor, Malaysia, Emergency and Trauma Department, School of Medical Sciences, Universiti Sains Malaysia Health Campus, 16150, Kota Bharu, Kelantan, Malaysia
ID 597  Correlation between Backpack Weight and Shoulder Pain in Children Aged 6-11 (A Case in Elementary School in Makassar, Indonesia)
Nurulzany, Industrial Engineering Department, Politeknik ATI Makassar, Makassar, Indonesia, Industrial Engineering Department, Universitas Hasanuddin, Makassar, Indonesia
I Bakri and S Asmal, Industrial Engineering Department, Universitas Hasanuddin, Makassar, Indonesia

ID 598  Risk Level for Manual Material Handling Activities Using Key Indicator Method in the Simulation of TPS Laboratory at Industrial Engineering, Diponegoro University
Yustina Nugraheni Wahyuningtyas, Heru Prastawa, Department of Industrial Engineering, Engineering Faculty, Diponegoro University, Tembalang, Semarang, Indonesia 50275

ID 599  The Effect of Emotion Induction on Situation Awareness and Driving Performance
Faradhina Azzahra, Industrial Engineering Postgraduate Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada Yogyakarta, Indonesia
Titis Wijayanto, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 600  Work Posture Analysis Using Rapid Entire Body Assessment on Workers at AR Tailor Denpasar
Ni Luh Gede Aris Maytadewi Negara, I Dewa Putu Sutjana, Ni Made Citra Aryani, Program Studi Kesehatan dan Keselamatan Kerja Universitas Bali Internasional

September 15, 7:00 – 9:00 pm
Diversity and Inclusion Panel sponsored by Ford Motor Company

Panel Chair
Dr. Yugowati Praharsi
Faculty and Researcher
Business Management Department
Shipbuilding Institute of Polytechnic
Surabaya, East Java, Indonesia

Panel Speaker 1
Professor Donald M. Reimer
President, The Small Business Strategy Group
Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University
Southfield, Michigan, USA

Panel Speaker 2
Rosula Reyes, Ph.D.
Professional Electronics Engineer
ASEAN Engineer
Associate Professor
Department of Electronics, Computer, and Communications Engineering
Ateneo de Manila University
Quezon City 1108
Philippines

Panel Speaker 3
Ronald Sukwadi, PhD.
Associate Professor
Industrial Engineering Department
Dean of Faculty of Engineering
Atma Jaya Catholic University of Indonesia
Indonesia

Panel Speaker 4

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Professor Hui-Ming Wee  
Adjunct Chair Professor  
Department of Industrial and Systems Engineering  
Chung Yuan Christian University  
Taiwan

Panel Speaker 5

National Port Advisor – United Nations ESCAP  
Transport Consultant – IFC, World Bank Group  
Director – Kinisi Transport Consultant

September 16, 2021 (Thursday) - Session: 8:00 am – 12:00 pm

Keynotes

8:00 am, Thursday, September 16 – Conference Co-Chair Remarks – Zoom Meeting Room 1

8:20 am, Thursday, September 16 – Keynote Speaker XI – Zoom Meeting Room 1

Tom Gaasenbeek  
Founder and CEO  
Nexas Networks Inc.  
Hamilton, Ontario, Canada

09:00 am, Thursday, September 16 – Keynote Speaker XII: – Zoom Meeting Room 1

Adil Dalal  
President & CEO  
Pinnacle Process Solutions, Intl  
Austin, Texas, USA

09:40 am, Thursday, September 16 – Keynote Speaker XIII: – Zoom Meeting Room 1

Dr. John Blakemore  
Adjunct Professor at University of Newcastle  
Blakemore Consulting International  
Sydney, Australia  
Industry 4.0 and its Vision

10:20 am – BREAK

10:40 am, Thursday, September 16 – Keynote Speaker XIV: – Zoom Meeting Room 1

Basuki Rahmad, ST, MT  
CEO  
PT. Transforma Engineering & Solutions  
Bandung, Java, Indonesia

11:20 am, Thursday, September 16 – Keynote Speaker XV: – Zoom Meeting Room 1
### September 16, 2021 (Thursday) - Session: 1:00 – 3:00 pm

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<th>Session</th>
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<td><strong>Global Business Management Education I</strong></td>
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<td><strong>Session Chair:</strong> Muhammad Saad Memon</td>
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<td>1:00 pm – 1:20 pm</td>
<td>Assoc. Prof. Ade Irma Susanty, Ph.D.</td>
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<td><strong>School of Communication and Business</strong></td>
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<td>1:20 pm – 1:40 pm</td>
<td>Dr. Ismail Suardi Wekke</td>
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<td><strong>Institut Agama Islam Negeri (IAIN)</strong></td>
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<td><strong>Sorong, Indonesia</strong></td>
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<td><strong>Asosiasi Dosen Insan Cita Indonesia, Indonesia</strong></td>
<td>Implementation Decision Support System on Decision Making in the Organization of Himpunan Mahasiswa Islam</td>
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<td>1:40 pm – 2:00 pm</td>
<td>Dr. Muhammad Saad Memon</td>
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<td><strong>Assistant Professor</strong></td>
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<td><strong>Department of Industrial Engineering &amp; Management</strong></td>
<td>Mehran University of Engineering &amp; Technology</td>
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<td><strong>Jamshoro, Pakistan</strong></td>
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<td><strong>President – IEOM Pakistan Chapter</strong></td>
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<td>2:00 pm – 2:20 pm</td>
<td>Dr. Arundhati Guha Thakuruta</td>
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<td><strong>Ergonomics and Human Factors Specialist</strong></td>
<td>SVKM’s Narsee Monjee College of Management Studies (NMIMS)</td>
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<td><strong>Assistant Professor</strong></td>
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<td><strong>School of Design (SOD)</strong></td>
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<td><strong>Mumbai, India</strong></td>
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<td>2:20 pm – 2:40 pm</td>
<td>Dr. Rekha Prasad</td>
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<td><strong>Professor, specialization Quantitative Techniques and Information System</strong></td>
<td>Banaras Hindu University</td>
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<td><strong>Varanasi, Uttar Pradesh, India</strong></td>
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### 1:00 – 3:00 pm, THURSDAY - Manufacturing and Sustainable Manufacturing

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<th>ID 039</th>
<th><strong>Design for Manufacturing, Assembly, and Reliability on Product Redesign: Literature Review and Research Direction</strong></th>
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<td>Anda Iviana Juniani, Moses Laksono Singgih, Putu Dana Karningsih, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
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<th>ID 051</th>
<th><strong>Lesson Learned in Developing and Implementing Global Business Strategy in Food and Beverages Companies: A Comparative Study</strong></th>
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<td>Bukhori Muslim, Master Program of Industrial Engineering Department, Faculty of Engineering, Sebelas Maret University, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia 57126, Department of Trade and Industry, Government of Pati Regency, Central Java Province, Jl. Raya Pati-Kudus No.Km. 4, Margorejo, Kec. Margorejo, Pati Regency, Central Java, Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Surakarta, Indonesia</td>
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</table>
ID 162  The Critical Organization Factor Contribute Lecturers' Happiness
Nurul Nazihah Awang Kecek, Khairunesa Isa, Syamimi Syafiq Shahil, Science Social Department, Centre for General Studies and Vocational
University Tun Hussein Onn, Batu Pahat, Malaysia

Tieka Triktarika Gustiyan, Candra Wijayangka, School of Postgraduate Program, Universitas Pendidikan Indonesia, Bandung, Indonesia, And
School of Economic and Business, Telkom University, Bandung, Indonesia
Pandu Made Rahayu Srijanty, School of Economic and Business, Telkom University, Bandung, Indonesia
Maya Sari, Ikupetara Waspada, Associate Professor, School of Postgraduate Program, Universitas Pendidikan Indonesia, Bandung, Indonesia

ID 008  The Implementation of Green Productivity for Plastic Manufacturer
Axel Fernaldy, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia
Taufik Roni Sahrni, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

ID 509  Halal Tourism Research
Muhammad Fadhila Yudhanata, Wahyudhi Sutrisno, Roaida Yanti, Qurtubi, Anas Hidayat, Department of Industrial Engineering, Universitas Islam
Indonesia, Yogyakarta, Indonesia, Department of Management, Universitas Islam Indonesia, Yogyakarta, Indonesia

1:00 – 3:00 pm, THURSDAY  Occupational Safety and Health (OSH) / Work Design  Room 3
Session Chair: Au Yong Hui Nee, Universiti Tunku Abdul Rahman, 31900 Kampar, Perak, Malaysia

ID 017  OSH Hazards Risk Assessment Using AHP Technique – A Case study of an Electronics Manufacturing Company
Kanesan Muthusamy, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur. Malaysia, Joses Shem John David
Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur. Malaysia
Shannen Darshini Surasan Nair, Faculty of Engineering and Technology, UCSI University, Kuala Lumpur. Malaysia
Nagesparan Ainarappan, Faculty of Engineering and Technology, UCSI, University, 56000 Kuala Lumpur. Malaysia

ID 137  Cold Chain Planning for COVID-19 Vaccine Distribution
Ferensius Axel Oscar Reynald and Renny Oktarina, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia, 11480

ID 159  A Simulated Annealing Heuristics for Delivery Time Equality of the Couriers in an Expedition Company
Artya Lathifah, Industrial and Information Management Department, College of Management, National Cheng Kung University, Tainan, Taiwan
Hikmah Sekariningtyas, Industrial Engineering Department, Seputih Nopember Institute of Technology, Surabaya, East Java, Indonesia

ID 400  Quality Improvement with the DMAIC Approach Using the Implementation of the Benchmarking and KPI Methods
Hibarkah Kurnia, Choesnul Jaqin and Humiras Hardi Purba, Master of Industrial Engineering Department, Mercu Buana University, Jln Menteng No.
29 Jakarta 10340, Indonesia

ID 360  Analysis of the XYZ Cinema Queue System Using Arena Simulation Software
Hayati, Mariana Audini, Fitra Lestari, and Akhmad Nidhomuz Zaman, Industrial Engineering Department, Faculty of Engineering, Veteran National
Development University of Jakarta, Depok, West Java 16514, Indonesia

ID 100  Effect of Different Fatigue Levels on Work Quality in an Experimental Cognitive Task
Asterina Febrianti1, Yoanita Yuniati2, Dwi Kurniawan, Industrial Engineering Department, Institut Teknologi Nasional, Bandung 40124, Indonesia

ID 655  Measuring the Risk Level of Retail Sector for COVID-19 Infection
Maria Angelica D. Bare, Francee Mae F. Castro, and Jhon Lawrence G. Quimio, Ma. Janice J. Gumasing, School of Industrial and Engineering
Management, Mapua University, Intramuros, Manila, Philippines

Ayu Yong Hui Nee and Charles Remendran S.P.R., Faculty of Business and Finance, Universiti Tunku Abdul Rahman, 31900 Kampar, Perak, Malaysia
Lilis Sureinty, School of Management, Universiti Sains Malaysia, 11800 USM Penang, Malaysia

1:00 – 3:00 pm, THURSDAY  Quality Control and Waste Management  Room 4
Session Chair: Mila Faila Sufa, Muhammadiyah Surakarta University, Surakarta, Central Java, Indonesia

ID 170  Analysis of Customer Satisfaction Levels on Quality of Transportation Services
Sofyanurriyanti, Gauastama Putra, Iing Pamungkas, Heri Tri Irawan, Rismawati, School of Engineering and Business, Telkom University, Surakarta, Indonesia

ID 227  Measuring the effectiveness of Healthy Values Brand Positioning Strategy: A Case Study of Healthy Bakery Café- Moose Bake
Shop
Jurus Shindarta, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Dian Kurnianingrum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 402  Solar Renewable Energy Potential and Development in Malaysia, Indonesia, Vietnam and Japan
Mohamad Yuszaime Abdul Hamid, Ku Nur Afrina Ku Azman Shah, Nor Akmal Fadil, Jafri Mohd Rohani, Mohd Zamri Mohd Yusop, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia
Budi Hartono, Mechanical and Industrial, Engineering Department, Gadjah Mada University, Yogyakarta, Indonesia
Nguyen Duc Tuyen, School of Electrical Engineering, Hanoi University of Science and Technology, Hanoi, Vietnam

ID 499  The Collaborative Strategy of Hotel Business with Online Travel Agent During Pandemic Crisis In Indonesia
Rajiv Dharma Mangruwa, Azman Hashim International Business School; Faculty Communication and Business, University Teknologi Malaysia; Telkom University Indonesia, Kuala Lumpur, Malaysia; Bandung, Indonesia
Akbariah M. Mahdzir, Malaysia Japan International Institute of Technology, University Teknologi Malaysia, Kuala Lumpur, Malaysia
Nur Naha Abu Mansor, Azman Hashim International Business School, University Teknologi Malaysia, Kuala Lumpur, Malaysia

ID 502  Industry 4.0 and collaboration along the Brazilian automotive chain: visions of automakers and auto parts
Nilza Aparecida dos Santos, Paulista University – UNIP, São Paulo, SP, Brazil
Sérgio Miele Ruggiero, Paulista University – UNIP, São Paulo, SP, Brazil
Marcia Terra da Silva, Paulista University – UNIP, São Paulo, SP, Brazil

ID 479  Plastic Component Nonconforming Analysis Using FMEA and Fishbone Diagram
Mila Faila Sufa and Tania Apriliingntyas, Department of Industrial Engineering, Faculty of Engineering, Muhammadiyah Surakarta University, Surakarta, Central Java, Indonesia

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ID 604 Implementation of Kansei Engineering, Kano Model, and TRIZ in Improving the Quality of Fully Online Learning System
Ratna Sari Dewi, Department of Industrial and System Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia
Diannda Aryntya Fria Fertiania, Department of Industrial and System Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

ID 605 Analysis of Train Passenger Comfort Related to the Vibration and Heat It Creates
Sugiono Sugiono, Oke Oktaviany, Dwi Hadi Sulistyarini, Willy Satrio Nugroho, Department of Industrial Engineering, Universitas Brawijaya, Malang, Indonesia
Evan Wiryawan, PT. Industr Kereta Api (INKA), Madiun, Indonesia
Heru Prastawa, Novie Susanto, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia
Retno Widyaningrum, Ratna Sari Dewi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 606 Perceived Usability Evaluation of MOLS (Mulawarman Online Learning System) During COVID-19 Pandemic Using System Usability Scale (SUS), Performance Measurement, and Thinking Aloud Methods
Therestia Pawitra, Willy Tambunan, Syahrul, Industrial Engineering Department, Mulawarman University, Samarinda, Indonesia

ID 608 Ergonomic Risks Associated with Musculoskeletal Disorders in Ikat Weaving Workers in Letmafo Induk Village, Insana Tengah District, Timor Tengah Utara Regency
Luh Putu Ruliati and Ribka Limbu, Public Health Study Program, Faculty of Public Health, Nusa Cendana University, Kupang NTT Indonesia
Arince Sophaba, Student of Public Health Study Program, Faculty of Public Health, Nusa Cendana University, Kupang NTT Indonesia

ID 609 Macro Ergonomic Modeling in Instagram Usage Based on The Socio-Technical System Approach
Adithya Sudiarjo, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Indonesia
Roikhanatun Nafi’ah, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Indonesia
Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapua University, Philippines

September 16, 2021 (Thursday) - Session: 3:00 – 5:00 pm

3:00 – 5:45 pm, THURSDAY   Global Business Management Education II   Room 1
Session Chair: Andi Cakravastia Ansaputra Raja

3:00 pm – 3:20 pm, Thursday, September 16
Dr. Eng. Andi Cakravastia Ansaputra Raja, S.T., M.T.
Associate Professor in Industrial Engineering
Institut Teknologi Bandung (ITB)
Indonesia

3:20 pm – 3:40 pm, Thursday, September 16
Dr. Carman Ka Man Lee
Associate Professor
Industrial and Systems Engineering (ISE) Department,
The Hong Kong Polytechnic University (PolyU)
Hong Kong, China

3:40 pm – 4:00 pm, Thursday, September 16
Dr. Shazia Nauman
Professor- Riphah School of Business & Management (RSBM)- Riphah International University, Lahore
Head of the Department- RSBM- Riphah International University, Lahore
Assistant Dean- Office of Research, Innovation and Commercialization (ORIC), Riphah International University
Lahore, Pakistan

4:00 pm – 4:20 pm, Thursday, September 16
Dr. Behzad Behdani
Assistant Professor in Operations Research and Logistics, Supply Chain Thinker and Advisor
Wageningen University and Research Centre
The Hague, South Holland, Netherlands

4:20 pm – 4:40 pm, Thursday, September 16
Dr. Marta-Mas Machuca
Dean of Faculty of Economics and Social Science
Universitat Internacional de Catalunya
Barcelona, Spain
### Session Chair: Desriyenti, Department of Industrial Engineering, Faculty of Engineering, Andalas University, Padang, Indonesia

#### 3:00 – 4:45 pm, THURSDAY

**Total Quality Management (TQM)**

**Room 2**

**ID 016**  
Priority in TQM Process Using AHP Technique – A Case study of an EPC Organization  
Kanesan Muthusamy, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur, Malaysia  
Shannen Darshini Surasen Nair, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur, Malaysia  
Josef Shem John David, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur, Malaysia  
Elangko Natarajan, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur, Malaysia

**ID 233**  
Khusna Dwijayanti, Doctor, Department of Industrial Engineering, Faculty of Science and Technology, Universitas Islam Negeri, UIN Sunan Kalijaga Yogyakarta, Indonesia, Jl. Marsda Adimajapuro 1 Yogyakarta Indonesia

**ID 345**  
The Impact of Audio, Location, and Viewing Angle in a Short Video on Viewers’ Empathy  
Hasini Sari, Yusri Mahbub Firdaus, Faculty of Industrial Technology, Institut Teknologi Bandung, Indonesia

**ID 441**  
Small Medium Enterprises in Indonesia: A Retrospective of The Research Journey  
Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Nur Afia, English Language Education Department, Universitas Nadjatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia  
Andre Septiano, Chemical Engineering Department, Universitas Nadjatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia  
Rienda Devi Kormalari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Raden Dafi Dinansyah, Wirradhatmadja, Environmental Science Department, Mie University, Mie 5148507, Japan

**ID 676**  
What Are The Factors That Encourage People To Keep Buying Newspapers In The Digital Age?  
Dedi Iskamto, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia  
Wisdalia Maya Sari, Faculty of Economics and Business, Bina Insan University, Lubuklinggau, Sumatera Selatan Indonesia  
Kurniati Karim, Sekolah Tinggi Ilmu Ekonomi (STIE) Satki Alam Kerinci, Jambi, Jambi  
Sri Langgeng Ratnasari, Magister Manajemen, Program Pascasarjana, Universitas Riau Kepulauan  
Elkana Timotius, Universitas Kristen Krida Wacana, Jakarta, Indonesia  
Abdul Taib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

**ID 546**  
A DMAIC Approach in Improving Wafer Hairline Crack Detection Process at Chip Probe and in Reducing Overall Manufacturing Downtime  
Donilyn D. Salazar and Marvin I. Noroña, School of Industrial Engineering and Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines

#### 3:00 – 4:45 pm, THURSDAY

**Transportation and Traffic**

**Room 3**

**ID 300**  
Analyze the Proper of Instagram as the Trends of Social Media: Why do Young Entrepreneurs Choose It?  
Cut Ima Setiawati, Business Administration Department, Telkom University, Jl. Telekomunikasi No. 1, Bandung, Indonesia  
Ariestya Dwinugraha Siswanto, Business Administration Department, Telkom University, Jl. Telekomunikasi No. 1, Bandung, Indonesia

**ID 492**  
Analysis of Queue Simulation in A Post Office Indonesia  
Affah Wahyu Ramadanti and Ahmad Dzaki, Student, Industrial Engineering Department, Faculty of Engineering, University of National, Development Veteran Jakarta, Indonesia  
Akhdram Ndhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, University of National Development Veteran Jakarta, Indonesia  
Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

**ID 114**  
Risk Management Measurement Model Based on ISO 31000 and Design Failure Mode and Effect Analysis (DFMEA) Concept in Small and Medium Industries  
Isnaini Rodiyah, Wiwik Sulistiyowati, and Ika Ratna Indra Astutik, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

**ID 287**  
Financial Socialization on Undergraduate Students in Bandung-Indonesia: The Roles of Parents and Education  
Candra Wijayangka and Tieka Trikartika Gustiana, School of Postgraduate Program, Universitas Pendidikan Indonesia, Bandung, Indonesia  
And School of Communication and Business, Telkom University, Bandung, Indonesia  
Ibnu Arif Rahmanda, School of Communication and Business, Telkom University, Bandung, Indonesia, Nugraha, Professor, School of Postgraduate Program, Universitas Pendidikan Indonesia, Bandung, Indonesia

**ID 518**  
The Social Design Techniques as Project Based Learning for Architecture Student  
Kusumaningdyah Nurul Handayani, Head of Urban-Rural Design and Conservation Laboratory, Department of Architecture, Faculty of Engineering, Head of Japan Culture Study Institute for Research and Community Service of Universitas Sebelas Maret (UNS), Surakarta, Indonesia

**ID 490**  
A Conceptual Framework on Work-Related Road Safety of the Gig riders in Malaysia  
Syilkah Abd Rahman, Jafri Mohd Rohani, Rozlina Md Sirat, and Mohd Firdaus Mohd Taib, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia

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3:00 – 4:45 pm, THURSDAY Production Engineering and Facilities Planning Room 4
Session Chair: Haryadi Sarjono, Binus University, Jakarta, 11480, Indonesia

ID 096 Evaluating Supply Chain Sustainability Risks Using Integrated Shannon Entropy, Statistical Variance and Prospect Theory
Agung Sutrisno, Department of Mechanical Engineering, Sam Ratulangi University, Manado, Vikas Kumar, Faculty of Business and Law, University of the West of England, UK

ID 097 A Flow Shop Batch Scheduling Model with Part Deterioration and Operator Learning-Forgetting Effects to Minimise Total Actual Flow Time
Dwi Kurniawan, Industrial Engineering Department, Institut Teknologi Nasional, Bandung 40124, Indonesia, Rinto Yusriski, Industrial Engineering Department, Universitas Jenderal Achmad Yani, Bandung 40285, Indonesia
Mohammad M’radj Isaini1, Anas Ma’ruf2, Abdul Hakim Halim3, Industrial Engineering Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 234 Layout Design of Distributor Warehouse PT. X in Sidoarjo
Abdur Rohim Achmad, Indni Hapsari, Dina Natalia Prayogo, Industrial Engineering, University of Surabaya, Indonesia

ID 290 The Benefits of Carbon Pantograph Strips over Copper Pantograph Strips
Junior Mabiza and Charles Mbohwa, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment University of Johannesburg, Auckland Park, Johannesburg, 2092, South Africa
Mbali Myeni, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park, Johannesburg, 2092, South Africa

ID 358 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
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 Derasrid, 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

ID 405 Development of Social Media Applications to Support Online Learning of Computer Simulation Course
Singgih Saptadi, Stefanus Robert Marsiamto, Muhammad Farhan Arief, Purnawan Adi Wicaksono, Denny Nurkertamanda, and Yusuf Widharto, Industrial Engineering Department, Diponegoro University, Semarang, Central Java, Indonesia

3:00 – 4:45 pm, THURSDAY Supply Chain Management Room 5
Session Chair: Imran Ali, School of Business and Law, Central Queensland University, Australia

ID 031 Retail Shelf Space Allocation in Supply Chain Contracts: A Literature Review
Winda Narulidea, Ahmad Rusdiansyah, Sri Gunani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya 60111, Indonesia

ID 042 Container Ports’ Performance and Logistics Costs: A Case Study in Indonesia
Resilyana Dwitasari, Irawati Andriania, Marlia Herwening, Suci Susanti, Masrono Yughartiman, and Atik S Kuswati, Ministry of Transportation Jakarta, Indonesia
Yandra Rahadian Perdana, Department of Industrial Engineering - Faculty of Science and Technology, Sunan Kalijaga State Islamic University, Yogyakarta, Indonesia
Murti Lestari, Department of Magister Management, Faculty of Business, Duta Wacana Christian, University, Yogyakarta, Indonesia

ID 044 Capacity Modeling for Marine Products Air Cargo Delivery from Indonesia
Timothy Rey Laheba, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia
Paulus Wisnu Anggoro, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

ID 067 Technopreneurship and Innovation System for Commercializing OpenWrt Router with Global System for Mobile Communication (GSM) Internet: A Case Study
Her Tatga Arfaninidta, 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, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 074 Evaluating the Adequacy of Public Healthcare Centers in Yogyakarta City: A Simulation Study
Christian Mario, Bertha Maya Sopho, Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, INDONESIA

ID 075 RFM Segmentation Model Implementation for Blood Donors
Tanti Octavia, Industrial Engineering Department, Petra Christian University, Siwalankerto 121-131, Surabaya, Indonesia

IEOM Indonesia Conference PARALLEL SESSIONS September 13-16, 2021
Rahmat Mohsin, UTM-MPRC Institute for Oil and Gas, Universiti Teknologi Malaysia Skudai, Johor Bahru, Malaysia
ID 022  The Impact of Big Data Analytics on Firm’s Operational Performance: Mediating Role of Knowledge Management Process
Anas Ifthikar, Department of Economic Sciences, Università Del Salento, Lecce, Italy
Imran Ali, School of Business and Law, Central Queensland University, Australia
Adeel Shah, Institute of Business Management, Karachi, Pakistan

ID 621  Comparison of Quick Exposure Check (QEC) and Nordic Body Map (NBM) in Traditional Broom Workbench Design
Niko Siameva Uletika, Tiger Putri Adhiana, Khoerul Huda Aditama, Industrial Engineering Program, Engineering Faculty, Jenderal Soedirman University, Purbalingga, Jawa Tengah, Indonesia

ID 622  Ergonomics Assessment for Wearable Elbow Exoskeleton Prototype
Novie Susanto and Manik Mahachandra, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia, Center for Bio Mechanic, Bio Material, Bio Mechatronics and Bio Signal Processing (CBIOM3S) Diponegoro University, Semarang, Indonesia

ID 624  Evaluation of the SM-8018 Shima Ergono Wheelchair Product Prototype Design Based on Quality of Life and Ergonomic Function Deployment
Heri Setiawan, Industrial Engineering Study Program, Science and Technology Faculty, Musi Charitas Catholic University, Bangau Street No. 60 Palembang, South Sumatera, Indonesia
Micheline Rinamurti, Management Study Program, Business and Accounting Faculty, Musi Charitas Catholic University, Bangau Street No. 60 Palembang, South Sumatera, Indonesia

ID 629  Effective Workplace Stretching Exercise for Decreasing Musculoskeletal Disorders in Ndao Ika weavers in Rote Ndao Regency
Serlien A Luik, Jacob M Ratu and Agus Setyobudi, Faculty of public health, Nusa Cendana University

ID 632  Development of Web-Based Occupational Safety and Health Management Information System (OSH-MIS) at Engineering Faculty of Diponegoro University
Manik Mahachandra and Jojor Kakanda Purba, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia
Ike Pertiwi Windasari. Computer Science Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 633  Cognitive Differences between Senior and Younger Worker: A Mental State Examination
Kristiana Asih Damayanti, Ari Widyanti, and Yassierli, Industrial Engineering and Management Department, Institut Teknologi Bandung, Indonesia

ID 639  The Relationship Analysis between Physical and Mental workload with Work Fatigue in Extruder Section at PT. ABC
Fanisa Ismi Permatahari, Industrial Engineering Department, Universitas Muhammadiyah Surakarta, Bekasi, Indonesia
Muchlisin Anis, Industrial Engineering Department, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia

September 16, 2021 (Thursday) - Session: 5:00 – 6:30 pm

5:00 – 6:30 pm, THURSDAY  Global Business Management Education III  Room 1
Session Chair: Numan Arshad

5:00 pm – 5:20 pm, Thursday, September 16
Khan Mohammad Elya
Planning Officer
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Dhaka, Bangladesh

5:20 pm – 5:40 pm, Thursday, September 16
Dr. Sharafaeddin Ahmed Khan
Assistant Professor
Industrial Engineering & Engineering Management Department
College of Engineering
University of Sharjah
Sharjah, UAE

5:40 pm – 6:00 pm, Thursday, September 16
Dr. Rajeev Agrawal
Associate Professor. Mechanical Engineering Department,
& Associate Dean(Research)
Malaviya National Institute of Technology Jaipur
Digital twin in supply chain management

6:00 pm – 6:20 pm, Thursday, September 16

Engr. Numan Arshad
Certified PMP, RMP, ACP PMI-USA
Certified PSP-AACEI
Senior Training Consultant and Visiting Lecturer
Riphah International University
Islamabad, Pakistan

5:00 – 6:30 pm, THURSDAY

Operations Research
Room 2

Session Chair: Eric Wibisono, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 006 Flowshop Production Scheduling Using Cds, Tabu Search And Genetic Algorithm (Case Studies: Cv. Mega Abadi)
Lina Gozali, Vania Eliyanti, Lamto Widodo, and Frans Yusuf Daywin, Industrial Engineering, Universitas Tarumanagara, Indonesia
Agustinus Purna Irawan, Mechanical Engineering, Universitas Tarumanagara, Indonesia
Harto Tanjuya, Industrial Engineering, Universitas Tarumanagara, Indonesia
Siti Rohana Nasution, Industrial Engineering, UPN Veteran, Jakarta, Indonesia

ID 099 Simulated Annealing Algorithm for Vehicle Routing Problem with Simultaneous Pick Up and Delivery: A Case Study of Liquid Petroleum Gas Distribution
Fatkhahatuz Zahra, Prima Arinda Nurul Islami and Nur Layli Rachmawati, Department of Logistics Engineering, Universitas Pertamina, DKI Jakarta, 12220, Indonesia
A.A.N. Perwira Redi, Department of Industrial Engineering, BINUS Graduate Program – Master of Industrial Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia
Reny Nadli, Department of Information System, Institut Teknologi Sepuluh, Nopember, Surabaya, 60111, Indonesia
Agus Supranartha, Department of Electrical Engineering, Universitas Pendidikan Nasional, Bali, Indonesia

ID 113 Modification of Non-delay Algorithm to Minimize Makespan
Nur Ezha Vidawati, Management Trainee Supply Chain, PT. Nestle, Indonesia
Pur儀和 Apriani Soepardi, Department of Industrial Engineering, Faculty of Industrial Engineering, Universitas Pembangunan Nasional Veteran, Yogyakarta, Indonesia

ID 284 Effect of Social Support on Elderly Welfare Using Structural Equation Modelling (SEM)
Restu Aj Nur Kafi BP, Industrial Engineering Postgraduate Program, Universitas Islam Indonesia, Yogyakarta, Indonesia
Hari Purnomo, Industrial Engineering Program, Universitas Islam Indonesia, Yogyakarta, Indonesia
Ayudyah Eka Apsari, Industrial Engineering Program, Universitas Islam Batik Surakarta, Surakarta, Indonesia

ID 702 Heuristic Algorithm to Minimize Maximum Lateness for Job-shop Scheduling Problem in Automotive Industry
Docki Saraswati, Debbie Kemala Sari and Nesyia Dwi Permata, Department of Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia

ID 274 Comparison of crossover operators in genetic algorithm for vehicle routing problems
Eric Wibisono, Iris Martin, and Dina Natalia Prayogo, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

5:00 – 6:30 pm, THURSDAY

Modeling and Simulation
Room 3

Session Chair: Muhammad Nadzmi Muhammad Idlan, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia

ID 078 Sales Prediction of Multi-Item Time Series Using Autoregressive Integrated Moving Average and Long Short-Term Memory on Perishable Products
Abdullah ‘Azzam, Shelly Elvina Salsabila, Suici Miranda, Department of Industrial Engineering, Islamic University of Indonesia, Kaliurang Street KM 14.5, Yogyakarta

ID 417 Age-Dependent Inventory Routing Problem Model for Medical Waste Collection
Ridho Syahrial Ibrahim, and Ahmad Rusdi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh, Nopember, Surabaya, Indonesia

ID 697 Techno-Economic Feasibility Analysis of Agricultural Drone Business in Indonesia
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hjsiam, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, Research Group Industrial Engineering and Techno-Economic, Department of Industrial Engineering, Faculty of Engineering Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 416 Developed SERVQUAL Model in Measuring Customer Satisfaction for Ferry Service in Langkawi
Muhammad Nadzmi Muhammad Idlan, Graduate Research Assistant, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia
Harlina Suzana Jaafar, Associate Professor, Department of Technology and Supply Chain Management, Faculty of Business and Management Universiti Teknologi Mara, Selangor Branch, Puncak Alam Campus, 42300 Bandar Puncak Alam, Selangor, Malaysia
ID 703  The Influence Of Good Corporate Governance, Audit Quality, Profitability, And Leverage On Financial Statement Integrity (Empire Study On Basic Industry & Chemicals Manufacturing Companies In Bei): Saiful Anam, Nurohman Hari Mulyono, Inuk Wahyuni Istiqomah, Ade Setia Pratama, Ahmad Iuthfi, Putri Ambarwati, Accounting Study Program, Faculty Economy, STIE Al Anwar Mojokerto, Indonesia Rony Wardhana, Faculty Economy and Business, Universitas Narotama Surabaya, Indonesia, Student of Doctoral Accounting, Universitas Airlangga Surabaya, Indonesia Abdul Talib Bin Bon, Fakulti Pengurusan Teknologi dan Perniagaan, Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia


ID 708  The Effect Of Strategic Flexibility, Strategic Innovation, Job Satisfaction And Employee Performance In The Covid-19 Pandemic: Study On Small And Medium Clothing Industry In East Java Province Mirhamida Rahmah, Noermijati Noermijati, Achmad Sudiro, Mintarti Rahayu, Doctorate Program Management Department, Faculty of Economics and Business, University Brawijaya, Malang, Indonesia

5:00 – 6:30 pm, THURSDAY  Machine Learning Room 4
Session Chair: Akmali Khansa Hafsah, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 079  A Proposed of Lean Six Sigma Framework for Higher Education Institution (LSSF - for HEdu) To Improve Effectiveness and Efficiency of Higher Education in Indonesia and Efficiency of Higher Education in Indonesia
Ig. Jaka Mulyana 1,2, Moses Laksono Singgih 1 and Sri Gunani Partiwi 1
1 Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya Indonesia
2 Department Industrial Engineering, Widya Mandala Surabaya Catholic University, Surabaya Indonesia

ID 174  Developing e-logistics system for Plastic Recycle in order to Enhance the Role of Community-Based Waste Bank R.B. Seno Wulung, Midarto Dwi Wibowo, Yuli Suwarno, Rofiatun Nafiah, Politeknik ATK Yogyakarta, Jl.Ateka, Bangunharjo, Sewon, Bantul, D.I.Yogyakarta

ID 179  Brand Communication and Service Quality Contribution in Building Brand Loyalty through Brand Trust in Indonesia's Garuda Airways
Evanny Andoko and 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
Gidion P. Adirinokso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

ID 150  Development of Automatic Tomato Plant Diseases Detection System based on Convolutional Neural Network Raditya Rifqi Rayhan, Winda Astuti, Muhammad Nurul Puji, Automotive and Robotics Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia 11480

ID 429  Sustainable Marketing Strategy: The Psychological Factors of Consumer
Doni Purnama Alamsyah, Chyntia Ika Ratnapury, Bina Nusantara University, Jakarta, Indonesia 11480

ID 477  Household Behavior on Plastic Waste Separation in Indonesia
Akmali Khansa Hafsa and Anna Maria Sri Asih, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta, Indonesia

5:00 – 6:30 pm, THURSDAY  Technoprenurship Panel Room 5

Panel Chairs
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 Universitas Sebelas Maret (UNS), Surakarta, Indonesia

Dwi Astuti, M.Eng., Ph.D.
Associate Professor
Industrial Engineering Department
Former Head of Industrial Engineering Department
Head of Faculty Quality System Controller
Faculty of Science and Technology
UIN Sunan Kalijaga, Indonesia

Panellists:
5:00 – 6:30 pm, THURSDAY
Room 6

ID 548  Ergonomic Intervention with Dirgaswasam Modeling Combined with Exercise Prescriptions (DirgasExPres) Reducing Musculoskeletal Complaints in Dentists
Ni Nyoman Kristina, Udayana University, Bali, Indonesia
I Made Ady Wirawan, I Putu Gede Adiatmika, and I Nyoman Adiputra, Medicine Faculty of Udayana University, Bali, Indonesia

ID 552  Analysis of Gastroenteritis Incidence during the Covid-19 Pandemic on Shopping Center Employees
Veniranda NW, Mahasiswa Program S2 Ilmu Kesehatan Masyarakat, Fakultas Kesehatan Masyarakat, Universitas Sriwijaya, Kota Palembang, Sumatera Selatan, Indonesia
Hermansyah, S.Si, M.Si, Ph.D, Pengajar Program S2 Ilmu Kesehatan Masyarakat, Fakultas Kesehatan Masyarakat, Universitas Sriwijaya, Kota Palembang, Sumatera Selatan, Indonesia
Yuanita Windsusari, Pengajar Program S2 Ilmu Kesehatan Masyarakat, Fakultas Kesehatan Masyarakat, Universitas Sriwijaya, Kota Palembang, Sumatera Selatan, Indonesia

ID 641  Occupational Stress Assessment and Its Impact on Job Performance during Work from Home
Audrey Maharani Bhinuko, Maya Arlini Puspasari, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Kampus UI Depok, Indonesia

ID 642  Measurement of Situation Awareness on Pedestrians: An Exploratory Study
Gilang Hamzah Akbar, Budi Hartono, and Titis Wijayanto, Departement of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 643  Mask Design For Children Aged 7-12 Years Based On Children's Convenience And Interest
Diah Meisi Roudatul Jannah, Master's Program in Visual Art, Faculty of Art and Design, Universitas Sebelas Maret, Indonesia
Lu’lu’ Purwaningrum, Faculty of Art and Design, Universitas Sebelas Maret, Indonesia

ID 644  Lectures' Mental Workload During Covid-19 Pandemic Online Learning With NASA-TLX
Muhammad Syaiful Fathon, Industrial Engineering Departement, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia
Etika Muslimah, Industrial Engineering Departement, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia

ID 645  Framework of Virtual Reality Based Training System for Improving Stability and Gait of Lower Limb Prosthetic Users
Dwita Astari Pujiantari, Khoirul Muslim, Yassierl, Faculty of Industrial Technology, Institut Teknologi Bandung, Bandung, Indonesia

ID 646  Analysis of Work Posture and Proposed Improvement for Workers of Kaysa Taylor Clothing Home Industry
Umi Suci Melinda, Rani Aulia Imran, Amanda Sofiana, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

September 16, 2021 (Thursday) - Session: 6:30 – 8:00 pm

6:30 – 8:00 pm, THURSDAY
Room 1

Global Business Management Education IV
Session Chair: Dr. Aftab Alam
6:30 pm – 6:50 pm, Thursday, September 16
Dr. Bernardo Nugroho Yahya
Full Professor, Data Analytics Program
Industrial & Management Engineering Department
Hankuk University of Foreign Studies
Cheoin-gu, Yongin, Gyeonggi, South Korea

6:50 pm – 7:10 pm, Thursday, September 16
Dr. Jorge Antonio Samayoa

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PARALLEL SESSIONS

September 13-16, 2021

Director, Operations Research Institute
Universidad Galileo, Guatemala

7:10 pm – 7:30 pm, Thursday, September 16

Abroon Qazi, Ph.D.
Fellow Society of Actuaries | Chartered Enterprise Risk Analyst
Assistant Professor, Department of Marketing & Information Systems
School of Business Administration (AACSB accredited)
American University of Sharjah, United Arab Emirates

7:30 pm – 7:50 pm, Thursday, September 16

Dr. Aftab Alam
Professor of Marketing
Centre of Management Studies
Jamia Millia Islamia (A Central University, Govt of India)
New Delhi, India

6:30 – 8:00 pm, THURSDAY

Inventory Control and Lean Six Sigma

Room 2

Session Chair: Dina Natalia Prayogo, University of Surabaya, Raya Kalirungkut, Surabaya 60293, Indonesia

ID 279 Machine Productivity Improvement of the Test-To-Pack Process Line in the Production of SMD Power Inductors Using DMADV Approach and ProModel Simulation
Angelo Vincent Z. Bautista, School of Graduate Studies, Mapua University, 658 Muralla St., Intramuros, Manila 1002, Philippines
Marvin I. Noroña, School of Industrial Engineering and Engineering Management Mapúa University, 658 Muralla St., Intramuros, Manila, Philippines

ID 027 Waste Minimization In A Concrete Block Company Using Lean Six Sigma, ECRS And Triz Methods
Paulino Gamboa 1,2 and Moses Laksono Singgih 2
1 Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS)
2 Department of Industrial Engineering, Dili University (UNDIL)

ID 080 Is the influence of Net Working Capital on Earnings per Share Critical: A Literature Review?
Batumalay Kaliannan, Universiti Teknologi Malaysia, Asia Metropolitan University, Bandar Baru Seri Alam, Johor. Malaysia
Mohd Norfian Alifiah, Universiti Teknologi Malaysia, Skudai. Johor. Malaysia
Kanesan Muthusamy, UCSI University, Malaysia, Cheras, Kuala Lumpur. Malaysia

ID 119 Appropriate Water Turbine for Harvesting the Energy of Free Water Flow
Retno Wulandari, Department of Mechanical Engineering, State University of Malang, Jalan Semarang 5 Malang 65145, Indonesia
Suprayitno, Department of Mechanical Engineering, State University of Malang, Jalan Semarang 5 Malang 65145, Indonesia
Pingkan Sihassaleh, Department of Mechanical Engineering, State University of Malang, Jalan Semarang 5 Malang 65145, Indonesia
Abdurrahman Zaqi Habibie, Department of Mechanical Engineering, State University of Malang, Jalan Semarang 5 Malang 65145, Indonesia

ID 156 The Influence Of Moods And Emotions On Female Leadership Style In The Hospitality Industry
Munawaroh, Hotel and Tourism Management, Faculty of Business and Communication, Swiss German University, Indonesia
Tiurida Lily Anita, Hotel Department Management, Faculty of Economic and Communication, Bina Nusantara University, Indonesia
Rivani Farihnta, Hotel and Tourism Management, Faculty of Business and Communication, Swiss German University, Indonesia

ID 111 Robust Optimization of Multi Depot Vehicle Routing Problems with Simultaneous Deliveries and Pickups in an Uncertain Environment
Dina Natalia Prayogo, Department of Industrial Engineering, University of Surabaya, Raya Kalirungkut, Surabaya, Indonesia

6:30 – 8:00 pm, THURSDAY

Technology Management

Room 3

Session Chair: Sabrina Putri Kinanti, Industrial and Systems Engineering, Universitas Indonesia, Depok, Indonesia

ID 334 Developed concept and approach of Engineering Design course in the Fourth Industrial Revolution (IR 4.0): A study case in Mechanical Engineering
Aditya Rio Prabowo and Ubaidillah, Department of Mechanical Engineering, Universitas Sebelas Maret, Surakarta, Central Java 57126, Indonesia
Fajjar Budi Laksono, Division of Research and Development, DTECH-Engineering, Salatiga, Central Java 50742, Indonesia

ID 297 Big Data Analytics Adoption Intention Among Small & Medium Enterprises in Malaysia
Chong Siu Houa, Azmin Azliza Aziza, and Suhaiza Hanima, Department of Operations Management and Information System, Faculty of Business and Accountancy, University Malaya, Kuala Lumpur, Malaysia

ID 561 Systematic Literature Review: Puppet Implementation Digital Technology in Industry 4.0 era
Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
Andriyani, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta, Indonesia
Heppy Yohanes, Sekolah Tinggi Teologi Bethel The Way, Jakarta, Indonesia

ID 563 Systematic Literature Review The Role of E-Commerce in Reog Ponorogo Art Crafters
Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
Ria Trianti, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta Barat, Indonesia
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<thead>
<tr>
<th>ID 564</th>
<th>The Art of Performing The Kecak Dance that Transformed into The Creative Industry: Systematic Literature Review</th>
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<tbody>
<tr>
<td>Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia, 11480, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia</td>
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<td>Heppy Yohanaes, Sekolah Tinggi Teologi Bethel The Way, Jakarta, Indonesia</td>
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<tr>
<th>ID 357</th>
<th>Profitability, Liquidity, Advertising Cost and Firm Size Towards Tax Aggressiveness In Indonesia</th>
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<tbody>
<tr>
<td>Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia, 06010 UUM Sintok, Kedah, Malaysia, 06010 UUM Sintok, Kedah, Malaysia</td>
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<tr>
<td>Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia Check Derasdash, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia Lily Cynthia, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480</td>
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<tr>
<th>ID 423</th>
<th>Feasibility Analysis of a Large Scale Floating Photovoltaic Power Plant Investment Using Financial Modeling with the Consideration of Uncertainties Factors</th>
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<tbody>
<tr>
<td>Sabrina Putri Kinanti, and Armand Omar Moeis, Industrial and Systems Engineering, Universitas Indonesia, Depok, Indonesia</td>
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<td>Dimas Kahunurudin, PT PJB Indonesia, Purwakarta, West Java, Indonesia</td>
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6:30 – 8:00 pm, THURSDAY  
Healthcare Systems  
Room 4

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<tr>
<th>ID 050</th>
<th>Manufacturing Excellence: Recent Development and Future Research</th>
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<td>Moses Laksono Singgih, Desy Ardiany, Winda Puspitasari, Firdausy Anwindy Ayudinda, Aida Aidil, Arventa Lukas Pranastya, Paulino, Gamboa, Afrigh Fajar Rosiydian, Hari Prasetyo, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, ITS Campus, Keputih-Sukolilo, Surabaya-Indonesia</td>
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ID 076  
Traceability of Mangosteen Supply Chain Management in Indonesia Using Blockchain Technology: An Approach of Causal Loop Diagram  
Resista Vikaliana, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Malaysia  
Raja Zuraiah Raja Mohd Rasi, Associate Professor, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia Malaysia, I Nyoman Pujawan, Professor, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia  
Irwanistyah, Departement Manajemen, STIES Gasantara, Sukabumi, Indonesia Darno, Faculty of Economic and Business, UMAHA, Indonesia |

ID 107  
Blockchain Adoption for Halal Food Integrity in Indonesian Food Industry  
Iwan Vanany and Nandyia Shafira Prameswi, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya 6011, Indonesia  
N. A. Rakhmawati, Department of Information System, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia  
J. M Soo, University of Central Lancashire, Faculty of Health and Wellbeing, International Institute of Nutritional Sciences and Applied Food Safety Studies, Preston, United Kingdom |

ID 447  
Factors Affecting Vulnerability of Barangays to CoVid-19: A Study in Cebu City  
Alyssa Gileyn D. Lustina, Darren F. Derige, Princess Dy R. Padagdag, Rochelle Phoebe C. Segovia, and Ardvin Kester S. Ong, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines  
Josephine D. Gerem, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines |

ID 498  
Aryo Wibowo, Doctor Candidate, Faculty of Public Health, Universitas Indonesia, Depok, Indonesia  
Fatma Lestari and Robiana Modjo, Professor and Lecturer, Faculty of Public Health, Universitas Indonesia, Depok, Jawar Barat, Indonesia |

ID 105  
Implementation of Lean Healthcare For Waste Elimination at Darmayu Ponorogo Hospital  
Haniatu Susanti, Universitas Sebelas Maret, Surakarta, Indonesia  
Listianingsih, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta Barat, Indonesia  
Bambang Suhandi, Laboratory of work system design and ergonomics, Department of Industrial Engineering, Faculty of Engineering, Universitas, Sebelas Maret, Surakarta, Indonesia  
Novie Susanto, Department of Industrial Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia |

6:30 – 8:00 pm, THURSDAY  
Industry 4.0  
Room 5

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<th>ID 277</th>
<th>Automating Inventory Management in Distribution Centers of a Leading FMCG Industry Player in the Beverage Market A Supply Chain 4.0 Journey</th>
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<td>Satur Dorado Apolonio, School of Industrial Engineering, Mapua University, 658 Muralla St, Intramuros, Manila 1002 Metro Manila, Philippines Marvin I. Nororia, School of Industrial Engineering, Mapua University, , 58 Muralla St, Intramuros, Manila 1002 Metro Manila, Philippines</td>
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ID 504  
Supply Chain Performance Measurement with Method Scr Model in Service Company Haryadi Sarjono  
Adi Teguh Suprarto, Adinda Hanna Setyorini, Dyah Rosita Nurjannah and Fara Fisabilla, Binos Business School Undergraduate Program, Binos University, Jakarta, 11480, Indonesia |

ID 020  
Blockchain Application for Halal Integrity: Exploratory Study  
Iwan Vanany and N.A. Nandya Shafira Prameswi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia  
Nur Aini Rakhmawati, Department of Information System, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia |

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2nd Asia Pacific Conference  
September 13-16, 2021
ID 206  The Coffee Shop Customer perception of product acceptances and willingness to pay of organic coffee Beverages: A case study from small business NgoopiKopi  
Cartarava Dewangga, Entrepreneurship Dept., BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Mira Rustine, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 275  The Pull and Push Factors Towards the Adoption of Agricultural Revolution 4.0 (AR4.0) for Agro-Food Supply Chain (AFSC) in SMIs Agro-based in Malaysia  
Nur Fatin Munirah Aris and Fazleen Abdul Fatah, Faculty of Plantation and Agrotechnology, Universiti Teknologi Mara Cawangan Melaka Kampus Jasin, 77300 Merlimau, Melaka, Malaysia  
Suhaiza Hanim Mohamad Zailani, Department of Operations Management and Information System, Faculty of Business and Accountancy, University of Malaya, Kuala Lumpur, Malaysia.

ID 296  Parking Stand Optimization With Restricted Stand Use Strategy At Terminal 3 Soekarno Hatta Airport  
Harno Pratomo, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia  
Gadang Ramantoko, Lecturer, Digital Business Management Study, Faculty of Economics & Business, Telkom University, Bandung, Indonesia  
Siska Noviaristanti, S.Si., M.T., Ph.D., Lecturer, Digital Business Management Study, Faculty of Economics & Business, Head of Departement, Magister Management Program, Telkom University, Bandung, Indonesia

6:30 – 8:00 pm, THURSDAY  
Global Business Management Education  
Session Chair: Dr. Imam Shofwan, Semarang State University, Indonesia

ID 591  Online Discussion Barier in Indonesia: Does It Had The Same Walls?  
Bayu Prasodjo, Faculty of Education, Yogyakarta State University, Yogyakarta, Indonesia  
Heri Retnawati, Faculty of Mathematics and Natural Science, Yogyakarta State University, Yogyakarta, Indonesia

ID 612  The Feasibility Level of The Infrastructures and Facilities of the Vocational Engineering Workshop in Palembang  
Jefri Aldo and Dwi Rahdiyanta, Department of Mechanical Engineering, Universitas Negeri Yogyakarta, Yogyakarta, Indonesia

ID 613  Students’ Perception toward Videoconference as the Mode of Teaching English Speaking for Presentation  
Wiannastiti Melania, Mujiyanto, J., Bharati, D.A.L., Graduate School- Universitas Negeri Semarang, Semarang, Indonesia

ID 614  Students’ Perceptions and Attitudes in Waste Management: The Role of Internet Literacy and Sustainability Programs  
Teddy Prasetyawan and Aryo Wasisto, Research Center of Parliamentary Expertise Agency of the Indonesian House of Representatives, Bandung, Indonesia

ID 616  Factors Affecting Parental Psychological Flexibility during Pandemic COVID-19: A Systematic Literature Review  
Retno Herfinanda, Master Psychology, Faculty of Psychology, Universitas Diponegoro, Indonesia, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah  
Dian Veronika Sakti Kaloei, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Indonesia, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 617  Improving the Critical Thinking Skills by Using the Discovery Learning Model Based on the Ethnoscience of the Patiayam Site  
Sri Utaminingsih, Rihayati and Santoso, Teacher Training and Education Faculty, Muria Kudus University, Indonesia

Conference Awards Ceremony (Virtual)
8th ACISE and 1st ICESH 2021 is a joint international conference organized by Industrial Engineering Department, Faculty of Engineering, Diponegoro University and Indonesian Ergonomics Society (PEI / Perhimpunan Ergonomi Indonesia). It aimed on providing a discussion, for exchanging of knowledge, researches and of recent solutions for many researchers and experts in the field of human factor and ergonomics, information system, as well as industrial and system engineering.

The theme of this joint conference is “The Roles of Information System, Human Factors Engineering and Ergonomics in Preparing the Post-Pandemic New Way of Working Life”. As may all of us realize, in the last two years, industries stakeholders experienced different roles towards pandemic situation and rapid digitalization. Pandemic makes us work with a different system where work from home and implementation of information systems are very dominant in all aspects of life. Various complaints and benefits were achieved with the new work system. This has become an interesting discussion topic for future lessons.

This event is strengthen the collaboration and provide a forum for industry professionals, academics, researchers, and scientists to discuss and exchange their research results, innovative ideas, and experiences in all aspects of HFE and technologies, as well as to identify emerging research topics and define the future directions to survive and gain some benefits in this era.

This fascinating forum is dedicated to discussing the role and issues of HFE, information systems and industrial system engineering in every significant aspect of the system during this era. 8th ACISE and 1st ICESH 2021 is collaborating with IEOM Society International for the 2nd Asia Pacific Industrial Engineering and Operations Management Conference, Surakarta, Indonesia, September 13-16, 2021. Selected quality papers are considered for the 2021 IEOM Indonesia Conference.
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Second IEOM Fellows Induction at the IEOM Bangkok Conference on March 6, 2019
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Upcoming Events

12th Annual IEOM Conference
Istanbul, Turkey, March 8-10, 2022
Host & Venue: Kadir Has University in collaboration with Sabanci University
Conference Website: www.ieomsociety.org/istanbul2022/

5th European IEOM Conference (Onsite)
Rome, Italy, July 26-28, 2022
Host and Venue: The Faculty of Civil and Industrial Engineering of Sapienza – University of Rome