Eighth International Conference on Industrial Engineering and Operations Management

Hilton Hotel—Bandung, Indonesia

March 6–8, 2018

Organizer

Host University
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**IEOM Society**

“**Achieving and Sustaining Operational Excellence**”

www.ieomsociety.org
Welcome to the 2018 IEOM Conference in Bandung, Indonesia

To All Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to Bandung, Indonesia and the 8th International Conference on Industrial Engineering and Operations Management. This unique international conference provides a forum for academics, researchers and practitioners from many industries to exchange ideas and share recent developments in the field of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. This conference will provide an excellent opportunity to network with leading scholars and practitioners. There were close to 700 papers/abstracts submitted from 60 countries and after a thorough peer review process, approximately 450 have been accepted. The program includes many cutting edge topics of industrial engineering and operations management. Full papers will be indexed in Scopus, subject to satisfying IEOM Quality Standards.

The challenge of continuous improvement will be significant in the 21st century; therefore, this conference will address many of the issues concerning continuous improvement for quality and service. Some of these issues will be addressed by our keynote speakers:

- Prof. Dr. Ir. Kadarsah Suryadi DEA, Rector, Institut Teknologi Bandung (ITB), Bandung, Indonesia
- Dr. Krishnaswami (Hari) Srihari, Executive Vice Provost for International Initiatives and Chief Global Officer, Dean and SUNY Distinguished Professor – Thomas J. Watson School of Engineering and Applied Science, Binghamton University – State University of New York, Binghamton, New York, USA
- Professor Cecilia Nembou, President and Vice-Chancellor, Divine Word University, Papua New Guinea
- Prof. Dr. Ir. Bermawi P. Iskandar, Vice Rector for Academic and Student Affairs, Professor in Reliability and Quality Systems, Manufacturing Systems Research Group, Faculty of Industrial Technology, Institut Teknologi Bandung, Bandung, Indonesia
- Professor Dr. Hui-Ming Wee, Distinguished Professor, Department of Industrial and Systems Engineering, Chaplain, Chung Yuan Christian University (CYCU), Former Associate Dean, College of Electrical Engineering & Computer Science, Chung Yuan Christian University, Taipei, Taiwan
- Professor Jose Arturo Garza-Reyes, Professor of Operations Management, Head of the Centre for Supply Chain Improvement, College of Business, Law and Social Sciences, Derby Management School, University of Derby, Derby, United Kingdom (UK)
- Mr. Endang Ahmad Zakaria, President Director, PT Dharma Precision Tools, West Java Province, Indonesia
- Dr. Robert de Souza, Executive Director, The Logistics Institute - Asia Pacific (TLI – Asia Pacific), Singapore
- Mr. Made Dana Tangkas, Director at Toyota Indonesia Toyota Motor Manufacturing Indonesia and President of Indonesian Automotive Institute

Due to the great success of the Global Engineering Education Series of the previous IEOM conferences, once again we will have a dedicated session on Global Engineering Education at this event. This session will feature distinguished speakers who will discuss the workforce readiness of engineering graduates around the world. Twenty four featured speakers from various parts of the world will address engineering education challenges and opportunities. The panel session on Global Engineering Education, chaired by Dr. Abu Masud, will explore the meaning of global engineering and the gap in educational readiness.

The Industry Solutions Track will address what industry needs in order to survive in the competitive environment. Distinguished practitioners will share their experiences and journey. They will address industrial challenges and opportunities for continuous improvement and sustainability. Lean Six Sigma, Smart Manufacturing and Entrepreneurship workshops have been scheduled.

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

We would also like to thank the students who are participating in this event. Your Conference Organizing Committee wants to again welcome you to Bandung and wishes you an enjoyable learning experience at the conference. We hope you a safe and memorable adventure exploring Indonesia with its many outstanding attractions and sightseeing opportunities.

Enjoy the conference!

Prof. Dr. Abdul Hakim Halim  
Conference Co-Chair  
Institut Teknologi Bandung (ITB)  
Bandung, Indonesia

Ahad Ali, Ph.D.  
Conference Co-Chair  
Lawrence Tech University  
Michigan, USA

Dr. Abdur Rahim  
Honorary Chair  
University of New Brunswick at Fredericton, Canada

Prof. Dr. Noordin Mohd. Yusof  
Honorary Chair  
Professor, Faculty of Mechanical Eng.  
Universiti Teknologi Malaysia
Conference Program

March 5, 2018 (Monday)
09:00 – 17:00 Pre-Conference Workshops
  09:00 – 12:00: Assessment and Continuous Quality Improvement of Student Learning by Dr. Abu Masud
  13:00 – 17:00: Leadership in Contemporary Organizations by Dr. Hamid Parsaei
13:00 pm – 20:00 Registration
20:00 pm – 22:00 IEOM Global Council Meeting

March 6, 2018 (Tuesday)
07:00 – 17:00 Registration
08:00 – 09:30 Parallel Sessions
09:40 – 10:00 Welcome Speaker: Prof. Dr. Ir. Kadarsah Suryadi DEA, Rector, Bandung Institute of Technology (ITB), Bandung, Indonesia
10:00 – 11:00 Opening Keynote: Dr. Krishnaswami (Hari) Srihari, Executive Vice Provost for International Initiatives and Chief Global Officer, Dean and SUNY Distinguished Professor – Thomas J. Watson School of Engineering and Applied Science, Binghamton University – State University of New York, Binghamton, New York, USA
11:00 – 11:30 Networking Break at Exhibition Hall
11:30 – 13:00 Parallel Sessions
13:00 – 14:30 Lunch Keynote: Professor Cecilia Nembou, President and Vice-Chancellor, Divine Word University, Papua New Guinea (Buffet Lunch Provided)
14:30 – 16:00 Parallel Sessions
16:00 – 16:30 Break
16:30 – 18:00 Parallel Sessions
18:00 – 19:30 Poster Session and Student Chapter Mixer

March 7, 2018 (Wednesday)
07:00 – 17:00 Registration
08:00 – 09:30 Parallel Sessions
09:30 – 10:15 Morning Keynote: Prof. Dr. Ir. Bermawi P. Iskandar, Vice Rector for Academic and Student Affairs, Professor in Reliability and Quality Systems, Manufacturing Systems Research Group, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia
10:15 - 11:00 Morning Keynote: Professor Dr Hui-Ming Wee, Distinguished Professor, Department of Industrial and Systems Engineering, Chaplain, Chung Yuan Christian University (CYCU), Former Associate Dean, College of Electrical Engineering & Computer Science, Chung Yuan Christian University, Taipei, Taiwan
11:00 – 11:30 Networking Break at Exhibition Hall
11:30 – 13:00 Parallel Sessions
13:00 – 14:30 Lunch Keynote: Professor Jose Arturo Garza-Reyes, Professor of Operations Management, Head of the Centre for Supply Chain Improvement, College of Business, Law and Social Sciences, Derby Management School, University of Derby, Derby, United Kingdom (UK) (Buffet Lunch Provided)
14:30 – 16:00 Parallel Sessions
16:00 – 16:30 Break
16:30 – 18:00 Parallel Sessions
19:00 – 22:00 CONFERENCE AWARD DINNER and Cultural Program

March 8, 2018 (Thursday)
07:00 – 15:00 Registration
08:00 – 09:30 Parallel Sessions
09:30 – 10:15 Morning Keynote: Dr. Robert de Souza, Executive Director, The Logistics Institute - Asia Pacific, Singapore
10:15 - 11:00 Morning Keynote: Mr. Made Dana Tangkas, Director at Toyota Indonesia Toyota Motor Manufacturing Indonesia and President of Indonesian Automotive Institute
11:00 – 11:30 Networking Break at Exhibition Hall
11:30 – 13:00 Parallel Sessions
13:00 – 14:30 Lunch Keynote: Mr. Endang Ahmad Zakaria, President Director, PT Dharna Precision Tools, West Java Province, Indonesia - Buffet Lunch
14:30 – 16:00 Parallel Sessions
16:00 – 16:30 Break
16:30 – 18:00 Parallel Sessions
Keynote Speakers

9:40 am (Tuesday, March 6) – Welcome Address

Prof. Dr. Ir. Kadarsah Suryadi DEA
Rector
Bandung Institute of Technology (ITB)
Bandung, Indonesia

Prof. Kadarsah Suryadi received his Bachelor Engineering degree majoring in Industrial Engineering from Institut Teknologi Bandung (ITB) in 1986. He took Diplome D'études Approfondies (DEA), Master Program on Technology Innovation Management - Industrial Engineering Department-Ecole Centrale Paris, France in 1988. He then continued his study in France until got Doctoral degree from Universite d'Aix Marsaille-3, in 1992. Kadarsah began his carrier as higher official of ITB in 2010 when he took the position of Director of Education Affairs, Department of Industrial Engineering in 2010. Soon after leaving position as head of department, he was appointed as Director of Education in 2011 and then further appointed as Vice Rector for Academic and Student Affair, ITB. Kadarsah Suryadi won the election of rector of ITB at the end of 2014, and then inaugurated as rector since January 2015. As an academic and scientific leader, Kadarsah Suryadi is a full professor at the Faculty of Industrial Technology. He supervised many PhD students and published many papers in journal as well as in international conferences. His research interest is in the Decision Support System. In addition, ITB won the "Most Admired Knowledge Enterprise" (MAKE) award when he was the team leader for the manuscript preparation of such award in 2007 and 2008.

10:00 am – 10:50 am (Tuesday, March 6) – Opening Keynote

Krishnaswami (Hari) Srilhari, Ph.D.
Executive Vice Provost for International Initiatives and Chief Global Officer
Dean and SUNY Distinguished Professor – Thomas J. Watson School of Engineering and Applied Science
Binghamton University – State University of New York, Binghamton
New York, USA

Globalization and its Impact on Engineering Education

SUNY Distinguished Professor Hari Srilhari was appointed Dean of the Thomas J. Watson School of Engineering and Applied Science at Binghamton University in June 2009. He joined the faculty of the Watson School in 1988. Prior to his appointment as Dean, Dr. Srilhari served the chair of the Department of Systems Science and Industrial Engineering (SSIE). He has played a key role in the creation of university-industry partnerships as Director of the Watson Institute of Systems Excellence (WISE). Recently, Dr. Srilhari was appointed as Executive Vice Provost for International Initiatives and the Chief Global Affairs Officer for Binghamton University. He is also a fellow of the Institute of Industrial and Systems Engineering.

Dr. Srilhari earned his bachelor’s degree with honors in production engineering from the University of Madras, India and his master’s and doctorate in industrial engineering and operations research from Virginia Polytechnic Institute and State University (Virginia Tech). He has directed and graduated over 170 MS graduate students and over 40 students at the PhD level. His research team includes over 80 graduate students, and he has secured over $ 45 million dollars in external sponsorship.

1:00 pm – 1:45 pm (Tuesday, March 6) – Lunch Keynote

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

Systems Thinking Applied in a University

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

Professor Nembou’s research interests include, systems thinking, strategic planning, leadership and management, and analytics in higher education.
Professor Nembou is a regular member of INFORMS and member of the IEOM Technical Committee. She has served on various committees and Councils of Universities as well as on Boards of State Statutory organizations, and Boards of commercial and non-government organizations in Papua New Guinea.

She is a former Head of Mathematics Department, Executive Dean of the School of Natural and Physical Sciences, Pro Vice Chancellor Planning and Development and Acting Vice Chancellor at the University of Papua New Guinea; Academic Registrar and Senior Lecturer at the University of Wollongong in Dubai, and Deputy President of the Divine Word University. She commenced her new role as President and Vice Chancellor of DWU on 20 January 2016.

9:30 am – 10:15 am (Wednesday, March 7) - Morning Keynote

Prof. Dr. Ir. Bermawi P. Iskandar, M.T, M.EngSc
Vice Rector for Academic and Student Affairs
Professor in Reliability and Quality Systems, Manufacturing Systems Research Group, Faculty of Industrial Technology
Bandung Institute of Technology
Bandung, Indonesia

Prof. Dr. Bermawi P. Iskandar obtained BSc (1981) and MSc (1985) degrees in Industrial Engineering from Bandung Institute of Technology, Indonesia, and MEngSc (1989) and PhD (1993) degrees from the Department of Mechanical Engineering, the University of Queensland. He is currently a Professor at the Department of Industrial Engineering, Dean of Faculty of Industrial Technology, ITB (2014-2016), and Vice Rector for academic and student affairs, Bandung Institute of Technology, Indonesia since 2015. His research interests include Product warranties, Maintenance and reliability models, Maintenance service contract, Lease equipment contracts, Facilities layout design, Lot sizing models for a supply chain system. He has published 40 conference proceedings papers, two book chapters and 20 papers in a number of international journals. Operations Research (USA), European Journal of Operational Research (EJOR), Asia Pacific Journal of Operational Research (APJOR), RAIRO-Operations Research (France), Reliability Engineering and Systems Safety, International Journal of Reliability, Quality and Safety Engineering, International Journal of Reliability and Application, International Journal of Mathematical and Computer Modelling, Journal of Computers and Operation Research and Journal of Quality Technology and Quantitative Management.

10:15 – 11:00 am (Wednesday, March 7) – Morning Keynote

Professor Dr Hui-Ming Wee
Distinguished Professor, Department of Industrial and Systems Engineering
Chaplain, Chung Yuan Christian University (CYCU)
Former Associate Dean, College of Electrical Engineering & Computer Science, Chung Yuan Christian University
Taipei, Taiwan

The Technological Singularity Movement: will the Singularity Occur around 2045

Biography: Dr. Hui-Ming Wee is a Distinguished Professor in the Department of Industrial and Systems Engineering, former Associate Dean and Chaplain at Chung Yuan Christian University (CYCU) in Taiwan. He has received his B.S. degree (honors) from Strathclyde University (UK), M. Eng. from Asian Institute of Technology (AIT), and Ph.D. from Cleveland State University, Ohio (USA). He has received an excellent research award from the Taiwan Ministry of Science & Technology, excellent life researcher award and the Medal for Distinguished Industrial Engineer Award. He has published more than 400 papers in refereed journals, international conferences and book chapters. His papers were cited over 3704 times (Scopus) with h-index: 34. He has co-edited seven books and holds two patents; was keynote speaker in a number of international conferences, Senior Member for Asian Council of Science Editors (ACSE), Board of Directors for International Engineering and Technology Institute (IETI) and Editor/editorial board member for a number of international journals. His research interests are in the field of production/inventory control, optimization, logistics, renewable energy, technological singularity and supply chain risk management.

1:00 – 2:00 pm (Wednesday, March 7) – Lunch Keynote

Professor Jose Arturo Garza-Reyes, Ph.D.
Professor of Operations Management
Head of the Centre for Supply Chain Improvement
College of Business, Law and Social Sciences
Derby Management School
University of Derby
Derby, United Kingdom (UK)

Prof. Jose Arturo Garza-Reyes is a Professor of Operations Management and Head of the Centre for Supply Chain Improvement at the College of Business, Law and Social Sciences, University of Derby, UK. He is actively involved in industrial projects where he combines his knowledge, expertise and industrial experience in operations management to help organisations achieve excellence in their internal functions and supply chains. He has also led and managed international research projects funded by the British Academy, British Council and Mexico's National Council of Science and Technology (CONACYT). As a leading academic, he has published extensively in leading scientific journals, including the Int. Journal of Production Research, Int. Journal of Production Economics, Journal of Cleaner Production,
Tangkas’s Professional Activities:

- project management chief, and SIP project (ex. Kadera Ar. Indonesia) of PT. Toyota-Astra Motor.
- He is a trainer and instructor of Toyota Production production control of PT. Toyota Motor Manufacturing Indonesia.
- Made Dana Tangkas 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 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 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.

10:15 – 11:00 am (Thursday, March 8) – Morning Keynote

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

Dr. Robert de Souza is the Executive Director of the The Logistics Institute - Asia Pacific (TLI - Asia Pacific). Robert is a Chartered Engineer and a distinguished writer, speaker, consultant and advisor in the area of supply chain management. Prior to this appointment, effective May 1st 2004, Dr Robert de Souza served as Deputy Executive Director (Industry) and IT Director at TLI - Asia Pacific. Previously, Dr de Souza was Executive Vice President (Asia Pacific) for V3 Systems. His extensive tenure in the industry also includes serving as the Corporate Senior Vice President and Global Chief Knowledge Officer at Viewlocity Inc. and co-founder, Vice Chairman and CEO of SC21 Pte., Ltd., a Singapore-based supply chain software firm. As an educator, Dr de Souza is an Adjunct Professor 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 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.

Mr. Made Dana Tangkas
President of IOI, Chief of Permanent Committee at Kadin, Gaikindo
President of Indonesian Automotive Institute

Mr. Tangkas is Director of Toyota Motor Manufacturing Indonesia (TMMIN), President of IOI, Chief of Permanent Committee at Kadin, Gaikindo and President of Indonesian Automotive Institute. He was a vice president/director of production engineering, and Indonesia project leader at Toyota Motor Asia Pacific. He was an advisor for TMMIN BOD. Mr. Tangkas was a director of technical, quality, production control and logistic, exim, and engineering. He was a senior general manager for purchasing division, operation management consulting division, technical directorate, and corporate planning. Mr. Tangkas was a senior general manager for Karawang Plant Operation. He was general manager of production control of PT. Toyota Motor Manufacturing Indonesia. Mr. Tangkas was division head/gene manager of production control, new model project management chief, and SIP project (ex. Kadera Ar. Indonesia) of PT. Toyota-Astra Motor. He is a trainer and instructor of Toyota Production System, practical problem solving, and assessor for manager development. Tangkas’s Professional Activities:

- Chairman of Association of Indonesian Industrial Engineer and Management (IStMI), in 2008-2015.
- As Speaker and Advisor on Domestic and International for Manufacturing System, TQM, Demand and Supply System, PM, etc.
- Chairman of IGEFI, Chairman of Pelita AI Foundation., Chief of Industry Development in GAIKINDO.
- Chairman of APJP (Asosiasi Perusahaan Jalur Prioritas) in 2012-2015.
- President of AJJIF (Jujitsu-Indonesia) in 2012-2015.
- Head of KADIN’s Standing Committee for Industrial Policy and Regional Empowerment in 2012-2015.
- Chairman of AAF-TC#1 Economy in 2013-2015.
- Book Author: Building the Best Indonesia Business Way (Collaboration with ESQ, Mr. Ary Ginanjar Agustian).

Tangkas earned a Bachelor of Science degree in Industrial Engineering (1989) from the Bandung Institute of Technology, Indonesia.

1:00 pm (Thursday, March 8) – Lunch Keynote

Mr. Endang Ahmad Zakaria
President Director
PT Dharma Precision Tools
West Java Province, Indonesia

Mr. Zakaria is President Director of PT Dharma Precision Tools, Bekasi, Jawa Barat, Indonesia. He was graduated from the Department of Industrial Engineering, Bandung Institute of Technology. He started his career from engineering work related to the IE discipline at the company.
Pre-Conference Workshops  
March 5, 2018 (Monday)  
Room – Rubrix, 9:00 am – 5:00 pm

9:00 am – 12:00 pm  
Assessment and Continuous Quality Improvement of Student Learning

Dr. Abu Masud, P.E. (Retired)  
Boeing Global Engineering Professor  
Professor 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 Kuwait Institute for Scientific Research. He is a 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.

1:00 pm – 5:00 pm  
Leadership in Contemporary Organizations

Dr. Hamid Parsaei, PE  
Professor of Industrial and Systems Engineering  
Texas A&M University (College Station)  
and  
Professor of Mechanical Engineering  
Director of Academic Outreach, Texas A&M University  
Doha, Qatar

Hamid R. Parsaei is Professor of Industrial and Systems Engineering at Texas A&M University (College Station) and also Professor of Mechanical Engineering and Associate Dean for Academic Affairs at Texas A&M University at Qatar. He is a registered professional engineer (PE) in Texas, a Fellow of the Institute of Industrial Engineers (IIE), and a Fellow of the American Society for Engineering Education (ASEE). He has published over 200 articles in peer-refereed archival journals and conference proceedings. He has also served as editor/co-editor in chief for four academic journals and five book series. His research, in excess of $22 million, has been funded by numerous government and private institutions.
DISTINGUISHED SPEAKERS – Global Engineering Education

Tuesday (March 6, 2018)

Session I: Global Engineering Education
8:00 – 9:30 am (Tuesday) - Room Kapla
Session Chair: Dr. Syed Ahmad Helmi Al Haddad, Universiti Teknologi Malaysia, Johor, Malaysia

8:00 – 8:30 (Tuesday)

Dr. Syed Ahmad Helmi Al Haddad
Program Coordinator for MSc in Industrial Engineering
Faculty of Mechanical Engineering
Associate Fellow, Center for Engineering Education (CEE)
Universiti Teknologi Malaysia
Johor, Malaysia

Problem Based Learning (PBL)

Dr. Syed Ahmad Helmi is a senior lecturer in the Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), and is affiliated to the UTM Centre for Engineering Education. He is currently the Graduate Programme Coordinator for the Department of Material, Manufacturing and Industrial Engineering. He has a Bachelor of Science in Mechanical Engineering, Master in Mechanical Engineering, and a PhD in Engineering Education. Prior to joining UTM, he worked as an industrial extension officer in Standard and Industrial Research Institute of Malaysia (SIRIM) and as an engineer in various industries, such as INTEL and SIME-DARBY. Syed Helmi was a visiting scholar in University of Waterloo, Canada, and one of a task force member in-charged of propagating active learning in UTM. Over the years, as a practitioner of Problem-Based Learning (PBL), he has conducted several workshops to train academics, especially those in Science, Technology, Engineering, and Mathematics (STEM) education areas, on Outcomes-Based Education (OBE) particularly in effective implementation of Student Centred Learning (SCL) throughout Malaysian higher institutions, and international institutions such as in China, India, Korea, Turkey, and Afghanistan. Dr. Syed Helmi was invited as speaker in several international conferences. He has also won several awards, including the Diamond Award for Best Paper at the 2005 UNESCO International Centre of Engineering Education Asia Pacific Conference on Engineering Education in Bangkok, Thailand, the Best Paper Award at the 2011 IEEE Global Engineering Education Conference in Amman, two gold medals in the International Innovative Practices in Higher Education Exposition (i-PHEX2014) and one gold medal in i-PHEX2105. He also had published numerous articles related to his area of interest. His recent works include SCL, change management, complex engineering problems, manufacturing systems and optimization, and modelling of complex industrial systems.

8:30 – 9:00 (Tuesday)

Professor Rifky Ismail
Head at Center for Biomechanics, Biomaterials, Biomechatronics and BioSignal Processing
UNDIP: Diponegoro University
Semarang, Central Java, Indonesia

A research collaboration model for developing biomedical engineering research in Indonesia

Rifky Ismail is a lecturer and researcher at Department of Mechanical Engineering Diponegoro University (Undip), Semarang, Indonesia. He is Founder and Director of Center for Biomechanics, Biomaterial, Biomechatronics and Biosignal Processing (CBIOM3S). He has published many books, journals, and conference proceedings in the area of biomechanics, biomaterial, and biomechatronics. Dr. Rifky Ismail has encourage the research collaboration between medicine and engineering which can work together to solve problem in the field of medical devices in Indonesia. He has received Ph.D. from in Mechanical Engineering from University of Twente, M.Sc. from Gadjah Mada University and B.Sc. from Diponegoro University, Indonesia.

9:00 – 9:30 (Tuesday)

Dr. Azharul Karim
Senior Lecturer
Mechanical Engineering, Science and Engineering Faculty
Assistant Editor: Drying Technology
Queensland University of Technology
Queensland, Australia

Designing Innovative Project Based Learning (PBL) for post graduate engineering courses

Dr. Azharul Karim is currently working as a Senior Lecturer in Mechanical Engineering and course leader of Master of Engineering Management at Queensland University of Technology, Brisbane, Australia. Through his scholarly and innovative research, he has established a national and international standing. His excellence in research has been demonstrated by development of many innovative new products, 162 high quality refereed publications (including 74 Journal papers, 2 books and 12 book chapters), 16 research grants amounting $83.2 million, being invited by reputed world universities for invited seminars and his editorial role in top ranked journals. Dr Karim is
the inventor of energy and water efficient ultrasonic washing machine (patent WO02089652) and Ultrasonic dishwasher (patent WO0229148). He is the assistant editor of ‘Drying Technology’ and ‘Journal of Industrial Engineering’ journals. Dr Karim is currently leading ‘Energy & Drying’ research group at QUT. In last five years, he conferred 9 PhD degrees. His current research areas are Solar thermal energy, Lean Manufacturing, Microstructure investigation of food drying, and project based learning in engineering.

Dr Karim has pioneered innovative project based learning (PBL) for postgraduate engineering management students. This new project based learning is designed as the platform where students practice and pursue evidence-based practice using authentic industry problems, cases and projects and utilise their skills with contemporary software/analytic tools and engineering management skills. This allows students to constructively develop, synthesize and apply their learning in engineering management being realised in their authentic industry based projects. Through this PBL, students are able to develop higher level skills and understanding which are increasingly in high demand in industry and highly recommended by professional bodies such as Engineers Australia. Due to careful planning, designing and delivery of real-world and authentic unit content and learning environments, final student outcomes were highly satisfactory. Students found that the outcomes of their learning were highly supportive of their career development and progression.

Session II: Global Engineering Education
11:30 am – 12:45 pm (Tuesday, March 6) - Room Kapla
Session Chair: Dr. Razali Hassan, Universiti Tun Hussein Onn Malaysia

11:30 – 12:00 (Tuesday)

Dr. Matteo Mario Savino
Professor
University of Sannio
Benevento, Italy

Matteo Mario Savino got his Ph.D. in Industrial Operations at University of Naples, Italy. Actually he is Professor of Industrial Operations and Production Systems at University of Sannio, Benevento. He is the head of the Centre on Production, Reliability and Industrial Management Engineering. He manages national industry-based and EU funded projects on Operations Management. He has been Guest Editor of Special Issues on International Journal ofProduct Lifecycle Management, Journal of Operations and Quantitative Management and he is IJOQM Europe Editor. Actually Prof. Savino is in the Editorial Board of several peer reviewed international journal. He manages several research project funded and co-funded by European Commission and he is also in the National Quality Evaluators Panel for Universities and Research Centres. His main research interests are related to quantitative approaches for Quality and Environmental Management, Production and Supply Chain Management. His research works appeared on several peer-reviewed International Journals.

12:00 – 12:30 (Tuesday)

Dr. Md. Mizanur Rahman
Senior Lecturer, Department of Thermo Fluids, Faculty of Mechanical Engineering
University Technology Malaysia (UTM), Skudai, Johor Bahru, Malaysia

Md. Mizanur Rahman is currently a Senior Lecturer at Department of Thermo-Fluids, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia UTM, Johor Bahru, Malaysia. Before joining at UTM, he has served as a Postdoctoral Researcher at Aalto University School of Engineering, Finland. Rahman also has more than 12-year working experience in a government statutory body namely Rural Electrification Board (REB), Bangladesh. During his tenure in REB, Dr. Rahman has gathered practical experience in dealing with techno-economic and sociocultural challenges faced by rural electrification programme. He has accumulated deep insights towards the solution pathways for the Global Mega-challenge of having 1.2 billion people without access to electricity yet. Mr. Rahman has sound understanding into the global energy sector challenges and its societal implications. Mr. Rahman received his Ph.D. in Energy Economics and Power plant Engineering from Aalto University, Finland, M.Sc. in Sustainable Energy Engineering from Royal Institute of Technology KTH, Sweden, and B.Sc. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh. His research interests include rural electrification, energy economics, energy management, energy efficiency and system, sustainable and renewable energy, energy system modelling, Life-Cycle Analysis, distributed power generation, multicriteria evaluation etc. Dr. Rahman has several publications in International referred journals in energy engineering domain.

12:30 – 1:00 (Tuesday)

Dr. Razali Hassan
Associate Professor
Faculty of Technical & Vocational Education
Universiti Tun Hussein Onn Malaysia
86400 Parit Raja, Batu Pahat
Johor, Malaysia

Razali Hassan is a former Dean at Faculty of Technical and Vocational Education, Currently attached as UNESCO UNEVOC Coordinator at Universiti Tun Hussein Onn Malaysia (UTHM), Batu Pahat, Johor, Malaysia. PhD holder from University of Warwick, United Kingdom, Master Sc. (TVET) UPM, BTech. with Edu. (Electrical Technology) UTM, Teaching Certificate from Technical Teachers Training College TTTCKL, (Electrical Installation & Maintenance) Cert. in CAD (RMIT Melbourne); Ordinary members in TVET Society of Malaysian, ALUMNI Uni of Warwick, UPM, UTM, TTTCKL; Members for National Union Teacher Profession (NUTP), MTUN Society, Senior members Regional Association Vocational Teacher Education
(RAVTE) and Honorary Advisor for Malaysian Trainer and Industries Expert Society (MANDATE). Working Experience: Electrical maintenance workers, TVET teacher in Vocational School, Lecturer in TVET TTTC, UTHM, (Electrical Technology & Graphic Engineering) Specialize in the development of Training in TVET at national level and international networking with various countries including Australia, German, United Kingdom, Indonesia, Singapore, Thailand, Vietnam, Laos and Jordan as a Consultant, advisor, Supervisor, panel and facilitator in TVET; Educational Technology (E-learning) High impact consultancy experience; Employer Driven Skill Development Project (EDSD) by world Bank for VTC Jordan, Training Consultant (2011-2013), Yemen Consultancy Committee (2010-2011), Assessor Panel for Malaysian Qualification Agency (MQA), involve in Academic Programme development, Curriculum assessor for MoE, Coordinator & supervisor for National Dual Training System (NDTS) Project under Ministry of Human Resource (Master & PhD Students), Teaching and Supervise for Post Graduates, Bachelor’s degree, & Certificate in TVET skills programs.

Session III: Global Engineering Education
2:30 – 3:45 pm (Tuesday, March 6) - Room Kapla
Session Chair: Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia

2:30 – 3:00 (Tuesday)

Dr. Jafri Mohd Rohani
Head of the Industrial Engineering Programme
Department of Materials, Industrial and Manufacturing Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Malaysia

Enhancing Outcome Based Education Industrial Engineering Curriculum at Universiti Teknologi Malaysia

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

3:00 – 3:30 (Tuesday)

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

Dr. Shekar Babu is the Founding Head, Department of Management, Bangalore Campus, AMRITA Vishwa Vidyapeetham University. Dr. Shekar Babu holds a Bachelor of Engineering degree in Electronics and Communications from Bangalore University and a Master of Science degree in Electrical and Computer Science from California State University, Los Angeles and a Doctoral Degree in Strategic Management from Amrita University. He is a Management Consultant with over 25 years of experience in working with Price Waterhouse and Hewlett-Packard Co. His research areas are Corporate Social Responsibility (CSR), Corporate Governance (CG), Strategy and Social Development. He has taught courses in Marketing, Leadership, Management Consulting and Business Ethics.

3:30 – 4:00 (Tuesday)

Dr. Hongyi Sun
Associate Professor
Department of Systems Engineering and Engineering Management
City University of Hong Kong, China

Technology-Based Entrepreneurship

Dr. SUN is an Associate Professor in the Department of Systems Engineering and Engineering Management, City University of Hong Kong. His teaching and research areas include the management of technological innovation, manufacturing/operations strategy, quality management, and innovation & entrepreneurship education. Dr SUN has twice been the winner of the Teaching Excellence Award at the City University of Hong Kong and has won several other awards in education and education research for teaching and research on innovation and entrepreneurship education.
Session VI: Global Engineering Education: PANEL SESSION
4:30 – 6:00 pm (Tuesday, March 6) - Room Kapla
Panel Chair: Dr. Abu Masud, Wichita State University, Kansas, USA

Panelists

Dr. Abu Masud, P.E. (Retired)
Boeing Global Engineering Professor
Professor of Industrial and Manufacturing Engineering
Wichita State University, Kansas, USA

Dr. Abu Masud is an emeritus professor of industrial and manufacturing engineering at Wichita State University. He was named the Boeing Global Engineering Professor at Wichita State University. Dr. Masud advanced 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 dean and associate dean of 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 associate dean of graduate school (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 Kuwait 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.

Dr. Hamid Parsaei, PE
Professor of Industrial and Systems Engineering, Texas A&M University (College Station)
Professor of Mechanical Engineering and Director of Academic Outreach, Texas A&M Uni. Qatar

Accreditation: Preparing an International Campus for a Successful Visit

Hamid R. Parsaei is Professor of Industrial and Systems Engineering at Texas A&M University (College Station) and also Professor of Mechanical Engineering and Associate Dean for Academic Affairs at Texas A&M University at Qatar. He is a registered professional engineer (PE) in Texas, a Fellow of the Institute of Industrial Engineers (IIE), and a Fellow of the American Society for Engineering Education (ASEE). He has published over 200 articles in peer-refereed archival journals and conference proceedings. He has also served as editor/co-editor in chief for four academic journals and five book series. His research, in excess of $22 million, has been funded by numerous government and private institutions.

Dr. Albertus Retnanto
Associate Professor, Petroleum Engineering
Texas A&M University at Qatar

Assessing and Documenting Students Competencies in their Respected Disciplines

Dr. Albertus Retnanto is Associate Professor of the Practice of Petroleum Engineering at Texas A&M University at Qatar and has been in the Petroleum Engineering program since 2009. He holds a Ph.D. in Petroleum Engineering from Texas A&M University. He was a Principal Engineer with Schlumberger with more than 18 years of experience worldwide in both technical and management positions in the area of well testing, field development, production enhancement, and stimulation. He has served as the Review Chairman of Society of Petroleum Engineers (SPE) Drilling & Completion, a member of SPE Cedric K. Ferguson Medal Award Committee, a member of SPE Drilling and Completion Advisory Committee, and SPE advanced technology workshop, and currently, he serves as Technical Editor of SPE. He received the A Peer Apart SPE Award, for technical excellence of authors, to SPE, and to the industry.

Wednesday (March 7, 2018)

Session V: Global Engineering Education
8:00 – 9:30 am (Wednesday) - Room Kapla
Session Chair: Dr. Eldon Caldwell, University of Costa Rica

8:00 – 8:30 (Wednesday)

Dr. N. Vinod Chowdhary
Professor and Head, Department of Mechanical Engineering
SRK Institute of Technology
Vijayawada, Andhra Pradesh, India

Teaching, Learning & Accreditation

Dr. Vinod Chowdhary is a Professor and Head of Mechanical Engineering Department at SRK Institute of Technology, Vijayawada, Andhra Pradesh, India. He was Principal at G.H. Raisoni College of Engineering and
Global Engineering Education
March 6-8, 2018
IEOM Bandung Conference

Management, Ahmednagar (Shirdi), Maharashtra. India and Kruti Institute of Technology, Raipur, India. Dr. Chowdhary has 12 years industry experience. He has awarded FIE, LM-ISTE, ASME, and Chartered Engineer. His key achievements are:

- Development and substitution of Indian components with replacement of USA and Canadian parts.
- Improvement in the design to make the test rigs suitable for Ultrasonic inspection of Indian Products.
- Performed Automated Ultrasonic tube / pipe testing systems for customer like nuclear fuel complex, PSL limited, Mishra Dhatu Nigam Ltd, BHEL (R&D).
- Interacting with workshops of different industries for supply of the high quality materials in time. 200 /240 students in distinction and first division.
- Labs established. Civil Department started Consultancy and a part in designing civil work for college to a tune of 10 lakhs.
- Students increases from 900 to 1540. 5 courses started for ME, Diploma and increase in UG Mechanical intake.

8:30 – 9:00 (Wednesday)

Jedsada Tipmontian
Executive Board Member
Thai Association for Cooperative Education (Public Relations)
Nonthaburi, Thailand
Lecturer
King Mongkut's University of Technology North Bangkok

*Industrial and Systems Engineering Application through Cooperative and Work Integrated Education in Thailand*

Jedsada Tipmontian is a lecturer, Department of Agro-Industry Technology and Management He is also serving as Vice Dean, and Chair for Cooperative & Work-Integrated Education Program, Faculty of Agro-Industry, King Mongkut’s University of Technology North Bangkok (KMUTNB), Thailand. He received a Bachelor's degree in Agro-Industry from Prince of Songkla University, Thailand. He holds a Master degree of Engineering in Industrial Engineering from KMUTNB. He completed Certificate program in Industrial Engineering & Management from Asian Institute of Technology, Thailand. He completed PhD (Thesis Title: "Risk Modelling of Agro-Industrial Supply Chains in Asian Countries") at Department of Industrial Engineering, Anna University (AU), Chennai, India. Before joining KMUTNB as a faculty member, he worked for fruit industry, frozen seafood industry and fresh food logistics business. Tipmontian’s research interests include Food Supply Chain Risk Management, Food Business Management and Operation Analytics, Statistical and Fuzzy Quality Control, System Dynamics Simulation and Multi-Criteria Decision Models for solving problems in Agro-Industry.

9:00 – 9:30 (Wednesday)

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

*Coping with The Millennials*

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

Session VI: Global Engineering Education
11:30 am – 1:00 pm (Wednesday, March 7) - Room Kapla
Session Chair: Dr. Chan Chee-Ming, Universiti Tun Hussein Onn Malaysia

*Workshop on Industrial Revolution 4.0 in Higher Education*

Dr. Chan Chee-Ming
Associate Professor and Deputy Dean (Academic and Research),
Centre for Graduate Studies
Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, Malaysia

Chee-Ming Chan is an Associate Professor with the Civil Engineering Technology Department, Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia. She is presently holding the office of Deputy Dean in Academic and Research at the Centre for Graduate Studies in the University. Her area of expertise includes geomaterials, engineering education and higher education improvement. More recently, Dr. Chan’s current work on dredged materials from Malaysian waters has gained momentum and support from the Ministry of Science, Technology and Innovation and Department of Marine, Malaysia. She is also involved in professional bodies, including the Society for Engineering Education Malaysia (SEEM), Malaysian Geosynthetics Society (MyIGS), Institution of Engineers Malaysia (IEM), Board of Engineers Malaysia (BEM), and is an education quality auditor for the Malaysian Qualification Agency (MQA). From 2009-11, Dr. Chan served as a Postdoctoral Research Fellow at the Port and Airport Research Institute (PARI), Japan.

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Dr. Alina Shamsuddin
Associate Professor
Deputy Dean (Teaching, Learning and Academic Training)
Centre for Academic Development and Training
Universiti Tun Hussein Onn Malaysia
Johor, Malaysia

Alina Shamsuddin is currently an Associate Professor (Technology Management) with the Faculty of Technology Management and Business of Universiti Tun Hussein Onn Malaysia. Being a founding member of her faculty, Dr. Alina is not only knowledgeable on the immediate related fields of performance measurement, production and management, she is also an expert on educational quality assessment and assurance, with 5-year experience as an auditor for the Malaysian Quality Agency (MQA). Her research concerns are myriad but inter-related, encompassing higher education quality assurance and reforms, effective teaching and learning, as well as innovative technology adoption for SMEs. Currently heading the Unit of New Programmes Development, Dr. Alina is consolidating her effort to make a difference in the quality of programme design and delivery in the overall higher educational arena, institutionally and nationally.

Dr. Azeanita Suratkon
Senior Lecturer at the Faculty of Civil & Environmental Engineering
Lead – Department of Building and Construction Engineering
Universiti Tun Hussein Onn Malaysia
Johor, Malaysia

Azeanita Suratkon is currently a Senior Lecturer at the Faculty of Civil and Environmental Engineering, and leads the Department of Building and Construction Engineering. Dr. Azeanita had a multi-national education background: bachelor’s at UTM (Malaysia), Master’s at Herriot-Watt University (Scotland) and PhD at Chiba University (Japan). Her international exposure has given her the leverage for a multi-facet approach in her chosen field of study, which primarily revolves around construction management, risk assessment and procurement issues. Dr. Azeanita also aims to improve the current engineering education practice, in line with the nation’s Outcome-based Education philosophy, by drawing on her rich multi-discipline background. Her continuous effort in enriching construction management and higher educational reforms are driven forward in collaboration with Japanese counterparts too.

Session VII: Global Engineering Education
2:30 – 4:00 pm (Wednesday, March 7) - Room Kapla

Session Chair: Dr. Abdelaziz Berrado, The Ecole Mohammed d’Ingénieurs (EMI), Rabat, Morocco

2:30 – 3:00 (Wednesday)

Prof. S. P. Mukherjee
Ex-Centenary Professor of Statistics
Calcutta University
Kolkata, India

Dr. Shyama Prasad Mukherjee retired from the University of Calcutta as Centenary Professor of Statistics and has since been a Visiting Professor in the Department of Statistics. He was Dean, Faculty of Science in the University. He has been the Mentor of Indian Association for Productivity, Quality & Reliability. He holds a Master’s Degree followed by a Ph.D. degree in Statistics from the University of Calcutta. He was President of the Calcutta Statistical Association, Indian Society of Probability & Statistics, Operational Research Society of India and Indian Indian Statistics Association (India Chapter), besides the Indian Association for Productivity, Quality & Reliability. He was President of the Asia-Pacific Association of Operational research Societies (APORS) and Vice-President of the International Federation of Operational Research Societies (IFORS). He was Chairman of the Committee on Statistical Methods for Quality & Reliability in the Bureau of Indian Standards. He has been the Chairman of the Govt. of India Standing Committee on Labour Force Statistics and of the Expert Group for the Quarterly Employment Survey of the Ministry of Labour & Employment, Govt. of India. He has taught course in several universities in USA, Canada, Italy, Japan, Ireland, Luxembourg and a few other countries. He is currently Chairman of the Board of Directors, International Statistics Education Centre, Indian Statistical Institute, Calcutta.

3:00 – 3:30 (Wednesday)

Dr. Eldon Caldwell
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; Doctor (Ph.D.) in Industrial Engineering major in Lean Operations Engineering. He developed new heuristic sequencing algorithms in order to reduce cycle times and received Suma Cum Laude in his doctoral dissertation and Academic Crown Excellence Award in Autonomous University of Central America/ University of Nevada, USA. Currently, he is doctoral researcher at the (Dr. Sc.) Computing Science Program at the University of Alicante, Spain and doctoral researcher at the Dr. Ed. Program at University of Costa Rica, receiving the Academic Excellence Award 2013. Dr. Caldwellis “Lean Systems Certified Specialist”, MAPV-University of Nevada, USA, ASQ-Six Sigma Black Belt Certified Trainer, and Spanish publications technical reviewer of Gary Conner, 2002 Shingo Prized. Also, Dr. Caldwell has been recognized by the IEOM Society with the “Outstanding Service Award” for his career of over 25 years as an educator, researcher and promoter of development of industrial engineering. Dr. Caldwell earn his B.Sc. and Master degree in Industrial Engineering at University of Costa Rica (Summa Cum Laude) and he earn a Master degree in Service Marketing, as well in Financial Analysis at Interamerican
Session VIII: Global Engineering Education
4:30 – 6:00 pm (Wednesday, March 7) - Room Kapla
Session Chair: Dr. S. C. Naik, National Institute of Technology, Rourkela, Odisha, India

4:30 – 5:00 (Wednesday)

Dr. Abdelaziz Berrado
Associate Professor of Industrial Engineering
The Ecole Mohammadia d’Ingénieurs (EMI)
Mohammed V University, Rabat, Morocco

Dr. Abdelaziz BERRADO is an Associate Professor of Industrial Engineering at EMI School of Engineering at Mohamed V University. He earned MS/BS in Industrial Engineering from same institution, an MS in Industrial and Systems Engineering from San Jose State University, and a PhD in Decision Systems and Industrial Engineering from Arizona State University. His research interests are in the areas of Data Science, Industrial Statistics, Operations and Supply Chain Modelling, Planning and Control with application in different industries. His research work is about developing frameworks, methods and tools for systems’ diagnostics, optimization and control with the aim of operational excellence. He published several papers in international scientific journals and conferences’ proceedings. In addition to academic work, he is a consultant in the areas of Supply Chain Management, Data Mining and Quality Engineering for different Industries. He was also a senior engineer at Intel. He is member of INFORMS and IEEE.

5:00 – 5:30 (Wednesday)

Dr. Khristian Edi Nugroho Soebandrijia, BSIE, MM.
Binus ASO School of Engineering
Bina Nusantara University (Binus)
Tangerang, Banten, Indonesia

Dr. Khristian Edi Nugroho Soebandrijia, BSIE, MM is one of faculty members in Industrial Engineering Department and also teaching at Binus ASO School of Engineering (BASE), in Bina Nusantara University, Jakarta, Indonesia. He earned Bachelor of Science Degree in Industrial Engineering (BSIE) from Wichita State University (WSU), Wichita, Kansas, USA; Master Degree in Management from Indonesian Institute for Management Development, Jakarta, Indonesia. He obtained Doctoral Degree in Doctoral Program in Research Management. He also has exposures for program in Moscow Aviation Institute. Since 1991, He has professional working exposures in Thompson CSF Corporation (Versailles, France), Cessna Aircraft Company (Wichita, Kansas, USA), Frigoglass Group (Cikarang, Indonesia), Citibank, N.A (Jakarta, Indonesia), Perfetti Van Melle Indonesia (Cibinong, Indonesia). As in Education Professional and Consultancy, he has been winning several professional global awards and involving in teaching in several National and Multinational Companies and State Owned Enterprises. He is a distinguished member of Sigma Gamma Tau (Aerospace Engineering Honor Society) and Tau Beta Pi (National Engineering Honor Society), Strategic Management Society (SMS) and International Council on Systems Engineering (INCOSE ). His current research comprises: a. Service innovation in Products and Services, within disruptive innovation, Industry 4.0 and design thinking; and b. Sustainability in Industrial Systems and Engineering, Strategic Management and Psychology. c. Military and Civil Collaboration.

5:00 – 5:30 (Wednesday)

Dr. S. C. Naik
Professor, Former Head of Chem Engg and Dean
National Institute of Technology, Rourkela, Odisha, India
Past President, The Institution of Engineers
Past Vice-President,The Federation of Engineering Institutions in South & Central Asia

Vision 2025-Global Engineering Education

Professor S C Naik obtained his BTech, MS & PhD degrees-all in Chemical Engineering from the Universities of Madras, Ottawa and UK (Swansea, Wales) respectively. He taught at the National Institute of Technology, Odisha State, India where Dr. Naik was Head of the Department and Dean. He guided many Research Fellows, some medium scale Industries and helped in establishment of an Engineering College. Dr. Naik authored/co-authored some books, published many papers in International and National Journals and presented papers in several countries. He was a Keynote Speaker at the Technical Events in Sri Lanka, South Korea, some Gulf countries, Naples, Tokyo and San Francisco in 2006. Dr. Naik was a Consultant to a prestigious Journal.

Dr. Naik was a President of The Indian Institution of Engineers, one of the largest professional bodies in the world, a Vice President of The Federation of Engineering Institutions of South & Central Asia and a Council Member of The Indian Institute of Chemical Engineers. He is a well-known writer in his own mother tongue, Odia and has published several social novels, a book with one hundred poems and several articles for which he has been felicitated by his State Literature Academy and his name has found place in Central Literature Academy. Dr. Naik is associated with many Committees at the State and Central levels. Professor Naik has a deep involvement in social service for which he has been even appreciated by a world-based organization. For his achievements, he has been awarded and appreciated by Regional, State, Central and Global organizations.

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Dr. Mohammad T. Khasawneh, Ph.D.
Professor & Chair, Systems Science and Industrial Engineering
Associate Director, Watson Institute for Systems Excellence
Director, Healthcare Systems Engineering Center
Graduate Program Director, Executive Master of Science in Health Systems
Graduate Program Director, Industrial and Systems Engineering
Thomas J. Watson School of Engineering and Applied Science
State University of New York at Binghamton
Binghamton, New York 13902, USA

Dr. Mohammad Khasawneh is a Professor and Chair of Systems Science & Industrial Engineering at Binghamton University. He received his Ph.D. in Industrial Engineering from Clemson University, South Carolina, in August 2003, and his B.S. and M.S. in Mechanical Engineering from Jordan University of Science and Technology, Jordan, in 1998 and 2000, respectively. Dr. Khasawneh’s research is focused on healthcare systems engineering, operations management, and data science. Dr. Khasawneh currently serves as Associate Director for the Watson Institute for Systems Excellence (WISE), an institute for advanced studies that generates 2.5-3 million US$ in research funds annually. In addition, he currently serves as the founding director of the Healthcare Systems Engineering Center, an organized research center (ORC) at Binghamton University.

Since 2003, Dr. Khasawneh has been leading a wide spectrum of projects with U.S. hospital systems that focus on applied research in the areas of healthcare systems engineering, operational excellence, and data science. His health systems engineering center generates over one million US$ annually in sponsored research from various healthcare and hospital systems. Building on a successful research program and an academic concentration/minor, at the graduate/undergraduate levels, Dr. Khasawneh developed a 12-month Executive Master of Science with a Health Systems Concentration, which has been offered in Manhattan since 2013. He has also been instrumental in developing a new M.S. degree program in Healthcare Systems Engineering.

Over the years, Dr. Khasawneh presented his research at various national and international conferences, including China, India, Mexico, Jordan, Korea, Thailand, Japan, and Canada. Dr. Khasawneh’s research activities thus far have led to 40+ refereed journal articles, 100+ conference articles, one patent, and two new invention disclosures. In addition, his sponsored research efforts thus far have resulted in over eight million US$ in external funding and over 39 million US$ in software/equipment grants.

In 2006, Dr. Khasawneh received a U.S. Air Force Summer Faculty Fellowship to evaluate the use of multi-sensory cues to improve the landing of unmanned aerial vehicles. In 2009, he received another fellowship from the U.S. Air Force Office of Scientific Research to design ergonomic computer workstations for very large displays. Dr. Khasawneh received the State University of New York (SUNY) Chancellor’s Award for Excellence in Teaching in 2011 and University Award for Outstanding Graduate Director in 2015. He is a member of the Alpha Pi Mu and Alpha Epsilon Lambda honor societies. Dr. Khasawneh also holds an honorary visiting professor position with the Industrial Engineering Department at Hebei University of Technology in Tianjin, China.
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Dr. Hari-Aung Yuniarto, Researcher in Maintenance and Quality System Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia
Prof. Dr. Ir. T. Yuri M. Zagloel, Head of Industrial Engineering Department, University of Indonesia

HONORARY COMMITTEE

Pr. Moulay Larbi Abidi, Director, Ecole Mohammadia d’ingenieurs (EMI), Rabat, Morocco
Dr. Hesham Kamal Al-Fares, King Fahd University of Petroleum and Minerals, Saudi Arabia
Dr. Khaled S. Al-Sultan, King Fahd University of Petroleum and Minerals, Saudi Arabia
Dr. Md. Mizanur Rahman, University Technology Malaysia (UTM), Johor, Malaysia
Dr. Suat Kasap, Industrial Engineering, American University of the Middle East, Kuwait
Dr. Seifeddine Kadry, Beirut Arab University Lebanon
Dr. Hesham Kamal Al-Fares, King Fahd University of Petroleum and Minerals, Saudi Arabia
Dr. Gede Agus Widyadana, Industrial Engineering Department, Petra Christian University, Surabaya, Indonesia
Pr. Dr. Noordin Mohd. Yusof, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia
Dr. Taufiqul Islam, Freelance Consultant, Michigan, USA
Engineering Education
Dr. Chee-Ming Chan, Universiti Tun Hussein Onn Malaysia
Dr. Peter Toth, Trefort Agoston Centre for Engineering Education, Obuda University, Hungary

Engineering Management
Dr. Mehran Doulat, University of Wollongong, Wollongong, NSW, Australia

Entrepreneurship and Innovation
Dr. Indra Gunawan, The University of Adelaide, Australia

Facilities Planning and Management
Dr. Zeki Ayaq, Kadir Has University, Turkey

Financial Engineering
Dr. Kamilah Ahmad, Universiti Tun Hussein Onn Malaysia
S.M. Tofayel Ahmad, Bangladesh Bank, Motijheel, Dhaka, Bangladesh

Healthcare Systems
Dr. Farzad Firoozi Jahangirh, Department of Industrial Engineering, Faculty of Engineering, University of Sistan and Baluchistan, Zahedan, Iran
Dr. Jamah Eid Muhammad Alawani, Tabah University, Medina, Saudi Arabia

Human Factors and Ergonomics
Dr. Fabio Frugiero, University of Basilicata, Italy

IE / OIM in Asia
Dr. Ho Hwi Chie, Binus University, Indonesia

Information Technology and Information Systems
Dr. Azzah Yusof, Department of Educational Technology and Creative Multimedia, University Technology Malaysia (UTM), Johor Bahru, Malaysia

Inventory Management
Dr. Salvatore Miranda, University of Salerno, Italy

Lean and Six Sigma
Dr. Bernardo Villarreal, Universidad de Monterrey, Mexico
Edly Ramly, Lean Six Sigma Master Black Belt, EFQM Certification, Malaysia
Abdullah Y Dhafer, Aramco, Saudi Arabia

Logistics Management
Ketut Gita Ayu, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

Manufacturing and Design
Dr. TMA Ari Samadhi, Institut Teknologi Bandung, Indonesia
Navpreet Singh Chandok, O2i Technologies, India

Material Flow Cost Accounting (MFCA)
Dr. Wichai Chuttinawawat, Chiang Mai University, Thailand

Modeling and Simulation
Dr. Ali Elkamel, University of Waterloo, Canada
Dr. Magdy Helal, American University of the Middle East (AUM), Kuwait

Occupational Safety and Health (OSH)
Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia

Operations Management
Dr. Youssef Boulaksil, United Arab Emirates University, Al Ain, UAE
Dr. Fernando Gonzalez Aleu, Departamento de Ingenieria, Universidad de Monterrey, Mexico

Operations Research
Dr. Michael Mulising, National Univ. of Sci. and Tech., Windhoek, Namibia

IEOM Bandung Conference COMMITTEE March 6-8, 2018

Product Lifecycle Management
Dr. Ali Allahverdi, Kuwait University, Kuwait

Production Planning and Management
Dr. Gede Agus Widyadana, Petra Christian University, Indonesia

Project Management
Dr. Anmar Aamer, Sampoerna University, Jakarta, Indonesia
Bob Mathur, Phillips 66 Refinery (Exxon), Linden, NJ, USA

Quality Control and Management
Dr. Ho Hwi Chie, Bina Nusantara University (Binus), Banten, Indonesia
Dr. Nani Kurniati, Institute of Technology Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia

Reliability and Maintenance
Dr.-Ing. Zied Hajej, Université de Lorraine, France
Dr. Gajanand Gupta, BITS Pilani, Rajasthan, India

Sensors and Sensing Systems
Dr. Shahruhl Kamaruddin, Universiti Teknologi Petronas, Malaysia

Service Systems and Service Management
Dr. Kannapha Amarchukul, National Institute of Development Administration, Thailand

Statistics and Optimization
Dr. Bhavin J. Shah, Indian Institute of Management Indore, India

Supply Chain Management
Dr. Shao Hung Goh, Singapore University of Social Sciences

Sustainability in Supply Chain, Enterprise Operations and Strategies including Food Supply Chain
Prof. Jose Arturo Garza-Reyes, Derby Business School, University of Derby, UK
Dr. Vikas Kumar, Bristol Business School, University of the West of England, UK

Sustainability and Green Systems
Dr. Asela K. Kulatunga, University of Peradeniya, Sri Lanka

Sustainable Manufacturing
Dr. Habibah Norehan H Haron, UTMB Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia

Systems Engineering
Dr. Norzelayati Asmuni, Universiti Tun Hussein Onn Malaysia (UTM)

Technology Management
Dr. Alina Shamsuddin, Universiti Tun Hussein Onn Malaysia
Dr. Norizah Mohd, Universiti Sains Malaysia, Engineering Campus, Pulau Pinang, Malaysia

Total Quality Management (TQM)
Dr. Salah Haridy, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE
Dr. M. Shamsuzzaman, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE

Transportation and Traffic
Dr. Abbas Mahmoudabadi, Mehran University, Gilan, Iran

Work Design, Measurement, Standardization and ISO
Dr. Yunus Ngadiman, Universiti Tun Hussein Onn Malaysia

Technical COMMITTEE
Dr. A.O. Adewumi, University of KwaZulu-Natal, South Africa
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Dr. D. K. Banwet, IIT-Delhi, India
Dr. Abdelaziz Bendaou, Ecole Mohammadia d’ingenieurs, Rabat, Morocco
Dr. Mahdi Bashiri, Shahed University, Iran

Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
Dr. Haider Ali Biswas, Khulna University, Bangladesh
Dr. Miguel Sanz Bobi, Comillas Pontifical University, Spain
Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia
Dr. Mohammad Ishak Desa, Universiti Teknologi Malaysia
Dr. Mehran Doulat, Center for Quality and Sustainability, School of Engineering and Advanced Technology, UTM Kuala Lumpur, Malaysia
Dr. Omar Elmabrouk, Benghazi University, Libya
Dr. Dinusha Gamage, University of Moratuwa, Sri Lanka
Dr. Rodrigo Garrido, Universidad Adolfo Ibaez, Chile
Dr. Vassilis Gerogiannis, Department of Project Management, Greece
Dr. Jahara bint Ghani, UKM, Malaysia
Dr. Salih Haridy, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE
Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia
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Dr. Omar Elmabrouk, Benghazi University, Libya
Dr. Dinusha Gamage, University of Moratuwa, Sri Lanka
Dr. Rodrigo Garrido, Universidad Adolfo Ibaez, Chile
Dr. Vassilis Gerogiannis, Department of Project Management, Greece
Dr. Jahara bint Ghani, UKM, Malaysia
Dr. Salih Haridy, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE
Dr. Ravi Gor, St. Kabir Institute of Professional Studies, Ahmedabad, India
Dr. Kannan Govindan, University of Southern Denmark, Denmark
Dr. Indra Gunawan, The University of Adelaide, Australia
Dr. Md. Mamun Habib, Brac University, Bangladesh
Dr. Ramy Harik, University of South Carolina, USA

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Dr. T. Ramayah, School of Management, Universiti Sains Malaysia
Dr. Raja Zuraijah Raja Mohd Rasi, Universiti Tun Hussein Onn Malaysia
Dr. Bhuvnenesh Rajamony, University Malaysia Perlis (UniMAP), Malaysia
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Dr. Mohd Abdur Rashid, University Malaysia Perlis (UniMAP), Malaysia
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Dr. Brigitte Jaumard, Concordia University, Canada
Dr. Rashmi Jha, Gitarattan International Business School (GIBS), Affiliated to Guru Gobind Singh Indraprastha University, New Delhi, India
Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia
Dr. Prof. Dr. Anand Kumar, M.S. Engineering College, Bangalore, India
Dr. Brigitte Jaumard, Concordia University, Canada
Dr. Rashmi Jha, Gitarattan International Business School (GIBS), Affiliated to Guru Gobind Singh Indraprastha University, New Delhi, India

STUDENT COMMITTEE

Pankil Patel, LTU
Santosh Gudagunti, LTU

Submissions Received from Countries and Territories

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### Parallel Sessions

**Monday, March 5, 2018 - Pre-Conference Workshops**
9:00 am – 12:00 pm: Assessment and Continuous Quality Improvement of Student Learning by Dr. Abu Masud
1:00 – 5:00 pm Leadership in Contemporary Organizations by Dr. Hamid Parsaei

**Tuesday, March 6, 2018**

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<th>8:00</th>
<th>Global Engineering Education I</th>
<th>Industry Solutions I</th>
<th>Undergraduate Student Paper Competition</th>
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<th>Quality Control and Management</th>
<th>Operations Research</th>
<th>Engineering Management</th>
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| 9:40 | Welcome Address: Prof. Dr. Ir. Kadarsah Suryadi DEA, Rector, Bandung Institute of Technology (ITB)
Bandung, Indonesia – Grand Ballroom |
| 10:00 | Opening Keynote: Dr. Krishnaswami (Hari) Srihari, Executive Vice Provost for International Initiatives and Chief Global Officer, Dean and SUNY Distinguished Professor – Thomas J. Watson School of Engineering and Applied Science, Binghamton University – State University of New York, Binghamton, NY, USA – Grand Ballroom |
| 11:00 | Networking Break at Exhibition Hall |
| 11:30 | Global Engineering Education II | Industry Solutions II | Undergraduate Student Paper Competition | Supply Chain Management | Lean Six Sigma | Undergraduate Research Competition | Operations Research |
| 1:00 | Lunch Keynote: Professor Cecilia Nembou, President and Vice-Chancellor, Divine Word University, Papua New Guinea – Grand Ballroom (Buffet Lunch Provided) |
| 4:00 | Networking Break at Exhibition Hall |

6:00 – 7:00: Poster Session and Student Chapter Mixer

**Wednesday, March 7, 2018**

| 8:00 | Global Engineering Education V | Graduate Student Paper Competition | e-Business and e-Commerce | Logistics Management | Reliability and Maintenance | Operations Research | Business Management |
| 9:30 | Keynote: Prof. Dr. Ir. Bermawi P. Iskandar, Vice Rector for Academic and Student Affairs, Professor in Reliability and Quality Systems, Manufacturing Systems Research Group, Faculty of Industrial Technology, Bandung Institute of Technology, Indonesia |
| 10:15 | Keynote: Professor Dr Hui-Ming Wei, Distinguished Professor, Department of Industrial and Systems Engineering, Chaplain, Chung Yuan Christian University (CYCU), Former Associate Dean, College of Electrical Engineering & Computer Science, Chung Yuan Christian University, Taipei, Taiwan – Grand Ballroom |
| 2:30 | Global Engineering Education VI | Industry Solutions V | Information Systems and e-Business | Logistics Management | Total Quality Management | Data Analytics and Decision Analysis | Business Management |
| 4:00 | Networking Break at Exhibition Hall |

7:00 – 10:00: Conference Awards and Recognition Dinner including First IEOM Fellows Induction Ceremony – Grand Ballroom

**Thursday, March 8, 2018**

| 8:00 | Multi-Disciplinary | Entrepreneurship and Innovation | Technology Management | Transportation and Traffic | Artificial Intelligence | Modeling and Simulation | Project Management |
| 9:30 | Keynote: Dr. Robert de Souza, Executive Director, The Logistics Institute - Asia Pacific, Singapore – Grand Ballroom |
| 10:15 | Keynote: Mr. Made Dana Tangkas, Director at Toyota Indonesia Toyota Motor Manufacturing Indonesia and President of Indonesian Automotive Institute |
| 11:00 | Networking Break at Exhibition Hall |
| 11:30 | Human Factors and Healthcare Systems | Entrepreneurship and Innovation | Energy | Transportation and Traffic | Sustainability and Supply Chain | Production Planning | Project Management |
| 1:00 | Lunch Keynote: Mr. Endang Ahmad Zakaria, President Director, PT Dharma Precision Tools, West Java Province, Indonesia – Grand Ballroom (Buffet Lunch Provided) |
| 4:00 | Networking Break at Exhibition Hall |
March 6, 2018 (Tuesday)

Session: 8:00 – 9:30 am

08:00 – 09:30, TUESDAY  Global Engineering Education I  Kapla

Session Chair: Dr. Syed Ahmad Helmi Al Haddad, Universiti Teknologi Malaysia

8:00 – 8:30 (Tuesday)

Dr. Syed Ahmad Helmi Al Haddad
Program Coordinator for MSc in Industrial Engineering
Faculty of Mechanical Engineering
Associate Fellow, Center for Engineering Education (CEE)
Universiti Teknologi Malaysia
Johor, Malaysia

Problem Based Learning (PBL)

8:30 – 9:00 (Tuesday)

Professor Rifky Ismail
Head at Center for Biomechanics, Biomaterials, Biomechatronics and BioSignal Processing
UNDIP: Diponegoro University
Semarang, Central Java, Indonesia

A Research Collaboration Model for Developing Biomedical Engineering Research in Indonesia

9:00 – 9:30 (Tuesday)

Dr. Azharul Karim
Senior Lecturer
Mechanical Engineering, Science and Engineering Faculty
Assistant Editor: Drying Technology
Queensland University of Technology
Queensland, Australia

Designing Innovative Project Based Learning (PBL) for Post Graduate Engineering Courses

8:00 – 9:30, TUESDAY  Industry Solutions I  Rubix

Session Chair: Dr. Sharan Shetty, Manipal International University, Malaysia

8:00 – 8:30 (Tuesday)

Dr. Sharan Shetty
Assistant Professor of Finance
Industry Coordinator & Motivational Speaker
School of Management & Business
Manipal International University
Putra Nilai, Negeri Sembilan Darul Khusus, Malaysia

8:30 – 9:00 (Tuesday)

Bob Mathur
Sr. Project Manager
Phillips 66 Refinery (Exxon)
Linden, NJ 07036, USA

Latest Tools for Project Engineering & Management in Construction Industry including, Refinery, Pharmaceutical and IT

9:00 – 9:30 (Tuesday)

Farshid Pirahansiah
Senior Researcher
MIMOS Berhad
Deep Learning in Computer Vision, Consultant, Trainer
Technology Park, Kuala Lumpur
Malaysia

Deep Learning in Computer Vision
8:00 – 9:30, TUESDAY  
Undergraduate Student Paper Competition

ID 038  Remodelling the Process Flow of the Metal Division Assembly Line
Joshua Wong Kha Choon and Olugu Ezutah Udoncy, UCSI University Wilayah Persekutuan Kuala Lumpur, Malaysia

ID 093  Managing Inventory Cost and Assuring Medicine Availability: A Case Study of a Pharmacy in Jeddah Saudi Arabia
Lama M. Mufti and Abdulaziz T. Almaktoom, Dept. of Operations and Information Management, Effat University, Jeddah, Kingdom of Saudi Arabia

ID 095  The Impact of Forecasting Techniques on Jeddah Paints Factory
Aseel H. Bashnaini, Marwan M. Lingga, and Abdulaziz T. Almaktoom, Department of Operations and Information Management, Effat University, Jeddah, Kingdom of Saudi Arabia

ID 121  Redesigning of Lamp Production Assembly Line
Bung Wai Kit and Ezutah Udoncy Olugu, Faculty of Engineering, Mechanical Engineering Department, UCSI University, Kuala Lumpur, Malaysia

ID 612  Towards Sustainable Society: Design of Food Waste Recycling Machine
Shada Benniba, Aseel Wazwaz, Alaa Mohammad, Qatar University, Enas Abu Aker, Farah Al-Marridi, Mariam Mohammad, Qatar University, Farayi Musharavati and Galal Abella, Qatar University, Qatar

8:00 – 9:30, TUESDAY  
Supply Chain Management

ID 053  Impact of Internal Driver on Implementation of GSCM Practice
Aries Susanty, Diana Puspita Sari, Dyah Ika Rinawati and Lutfi Setiawan, Department of Industrial Engineering, Diponegoro University, Tembalang, Semarang, Indonesia

ID 056  Green Human Resource Management, Green Supply Chain Management Practices and Sustainable Performance
Abdul Talib Bon and Ahmed A. Zaid Production and Operations Management Department, Universiti Tun Hussein Onn, Parit Raja, Johor, Malaysia

ID 058  Assessing the Impact of Input Model Misspecification on Integrated Supply Chain Decisions
Mansur Maturidi Arief, Industrial and Operations Engineering, University of Michigan, Ann Arbor MI, USA

ID 070  Supplier Selection using Two Phases Model
Gamal Mohamed Nowara, Mohammad Abdel Halim Mansour and Ghada Mohamed Abdel Salam, Industrial Engineering Department, Zagazig University, Cairo, Egypt

ID 490  Toward a Conceptual Framework of Piper Retrofractum Supply Chain Performance
Issa Dyah Utami, Department of Industrial Engineering, University of Trunojoyo Madura, Jl. Raya Telang, Kamal, Bangkalan, Madura, Indonesia

8:00 – 9:30, TUESDAY  
Quality Control and Management

ID 096  Issues and Improvement Opportunities in Management System Internal Audit – A Survey
Edly F. Ramly, Certification Director, EFR Certification Sdn Bhd, Malaysia

ID 097  Case Study on Development of Process Failure Mode Effect Analysis (PFMEA) – Issues and Recommendations
Edly F. Ramly, Certification Director, EFR Certification Sdn Bhd, Malaysia

ID 183  A Model for Optimizing Remanufacturing Quality Strategy by Considering Quality Loss Function
M. Imron Mustajib, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember Surabaya, University of Trunojoyo Madura, Bangkalan, Indonesia
Nani Kurniati and Udisubakti Ciptomulyono, Department Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 316  The Implementation of Material Flow Cost Accounting Analysis to Determine the Optimal Sample Size and Lot Size in Serial Multi-Stage Processes
Suteerat Supakulwattana and Wichai Chattinnawat, Department of Industrial Engineering, Chiang Mai University, Chiang Mai, Thailand

ID 263  Strategic Business Transformation through Lean Six Sigma
Noor Azam Md Saad, Astuty Amrin PhD and Khairur Rijal Jamaludin PhD, Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia, Jalan Yahya Petra, Kuala Lumpur, Malaysia

ID 710  Self-Assessment and Quality Awards Models: A review of practice and process
Mehran Doulatabadi, Centre for Organisational Excellence Research (COER), Massey University, Palmerston North 4442, New Zealand
Azizah Yusof, Department of Educational Sciences, Mathematics and Creative Multimedia, Universiti Teknologi Malaysia, Johor Bahru, Malaysia
### 8:00 – 9:30, TUESDAY  
**Operations Research**  
Shogi

**Session Chair:** Girish Ch. Dey, Indian Institute of Technology, Kharagpur, West Bengal, India

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<th>ID</th>
<th>Title</th>
<th>Authors</th>
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<tr>
<td>042</td>
<td>A Goal Programming Model for Nurse Scheduling at Emergency Department</td>
<td>Nasr Al-Hinal, Noor Al-Yazidy, Anfal Al-Hooti and Ekhlas Al-Shereiqi</td>
<td>Department of Mechanical &amp; Industrial Engineering, Sultan Qaboos University</td>
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<td>Muscat, Oman</td>
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<td>591</td>
<td>Development of Sustainable Maritime Industry to Strengthen Regional Innovation System in Lamongan Regency</td>
<td>Septiyan Adi Nugroho and Udisubakti Ciptomulyono, Dept. of Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
<td>Niniek Fajar Puspita, Department of Chemical Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
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<td>064</td>
<td>A New Formulation of Multi item Lot Sizing Problem with Set up, Inventory and Shortage Costs</td>
<td>RRK Sharma and Priyank Sinha, Department of Industrial Engineering, IIT Kanpur, India</td>
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<td>090</td>
<td>Heuristics for Maximizing the Total Weight of Just-In-Time Jobs under Multi-Slot Conditions</td>
<td>Ryo Saito and Eishi Chiba, Graduate School of Science and Engineering, Hosei University, Koganei-shi, Tokyo, Japan</td>
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<td>A Performance Evaluation of Genetic Algorithm in Case of Multi-Objective Bin Packing Problem</td>
<td>Tatsuya Komiya and Yoichi Shimakawa, Department of Computer Science and Technology, Salesian Polytechnic, Machida, Tokyo, Japan</td>
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<td>067</td>
<td>Optimizing Protection Decision in Railway Systems</td>
<td>Girish Ch. Dey and Mamata Jenamani, Dept. of Industrial &amp; Systems Engineering, Indian Institute of Technology, Kharagpur, West Bengal, India</td>
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### 8:00 – 9:30, TUESDAY  
**Engineering Management**  
Ballroom 3

**Session Chair:** Endang Chumaidiyah, Telkom University, Indonesia

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<td>Five Segment Model of Resource Circulation Considering Shortcut Transitions</td>
<td>Takaaki Kawanaka, Institute for Innovation in International Engineering Education, Graduate School of Engineering, The University of Tokyo, Japan</td>
<td>Hiroshi Yamashita, Department of Commerce, Meiji University, Kanda-Surugadai, Chiyoda-ku, Tokyo, Japan</td>
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<td>Shoichi Kaneko, Faculty of Management Information, Yamanashi Gakuin University, Sakaori, Kofu city, Yamanashi, Japan</td>
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<td>Empirical analysis of bankrupt companies using linear and nonlinear techniques in Japanese Stock Markets</td>
<td>Masanobu Matsumaru, Department of Industrial Engineering and Management of Faculty of Engineering, Kanagawa University, Kanagawa, Japan</td>
<td>Takaaki Kawanaka, Institute for Innovation in International Engineering Education, Graduate School of Engineering, The University of Tokyo, Tokyo, Japan</td>
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<td>Shoichi Kaneko, Faculty of Management Information, Yamanashi, Japan</td>
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<td>A Framework for Evaluating the Performance of Supply Chain Risk in E-commerce</td>
<td>Abraham Stefanus and Markus Hartono, Industrial Engineering, Engineering Faculty, Universitas Surabaya, Surabaya, Indonesia</td>
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<td>An Analytical Model on Time Series Data in Inland Prefecture of Japan</td>
<td>Shochi Kaneko, Faculty of Management Information, Yamanashi Gakuin University, Kofu, Yamanashi, JAPAN</td>
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<td>Masanobu Matsumaru, Mechanical and Industrial Engineering Department, Kanagawa University, Kanagawa, JAPAN</td>
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<td>Green Manufacturing Adoption on SME: A review of theories</td>
<td>Ira Setyaningsih and Nurul Indarti, Industrial Engineering Department, Islamic State University Sunan Kalijaga, Yogyakarta, Indonesia</td>
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<td>Nurul Indarti, Faculty of Economics and Business, Gadjah Mada University, Yogyakarta, Indonesia</td>
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<tr>
<td>308</td>
<td>Strategy for Capability Development of Knitting Small Medium Enterprises Using SWOT Analysis</td>
<td>Endang Chumaidiyah, Rio Aurachman and Boby Sahera, Industrial Engineering Department of Industrial and System Engineering Faculty, Telkom University, Indonesia</td>
<td></td>
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</tbody>
</table>

9:30 – 9:40 - Break
Session – Tuesday (March 6): 9:40 – 11:00 am

9:40 am – Welcome Address
Prof. Dr. Ir. Kadarsah Suryadi DEA
Rector, Bandung Institute of Technology (ITB)
Bandung, Indonesia

10:00 am – Opening Keynote
Dr. Krishnaswami (Hari) Srihari
Executive Vice Provost for International Initiatives and Chief Global Officer
Dean and SUNY Distinguished Professor
Thomas J. Watson School of Engineering and Applied Science
Binghamton University – State University of New York, Binghamton, NY, USA

11:00 – 11:30 Networking Break at Exhibition Hall

Session – Tuesday (March 6): 11:30 am – 1:00 pm

11:30 – 1:00, TUESDAY Global Engineering Education II Kapla

Session Chair: Dr. Razali Hassan, Universiti Tun Hussein Onn Malaysia

11:30 – 12:00 (Tuesday)

Dr. Matteo Mario Savino
Professor
University of Sannio
Benevento, Italy

12:00 – 12:30 (Tuesday)

Dr. Md. Mizanur Rahman
Senior Lecturer, Department of Thermo Fluids
Faculty of Mechanical Engineering
University Technology Malaysia (UTM)
Skudai, Johor Bahru, Malaysia

11:30 – 1:00 (Tuesday)

Dr. Razali Hassan
Associate Professor
Faculty of Technical & Vocational Education
Universiti Tun Hussein Onn Malaysia
86400 Parit Raja, Batu Pahat
Johor, Malaysia

11:30 – 1:00, TUESDAY Industry Solutions II Rubix

Session Chair: Edly Ferdin Ramly, EFR Certification, Johor Bahru, Malaysia

11:30 – 12:00 (Tuesday)

Mehran Doulat, Ph.D.
Senior Research Fellow
Genichi Taguchi Center for Quality and Sustainability
Razak School of Engineering and Advanced Technology
UTM Kuala Lumpur
Kuala Lumpur, Malaysia
IEOM Bandung Conference  PARALLEL SESSIONS  March 6-8, 2018

12:00 – 12:30 (Tuesday)

Dr. Mohamed Osama Grida
Founder & CEO
CAD/CAM/CIM
Cairo, Egypt

12:30 – 1:00 (Tuesday)

Edly Ferdin Ramly
Certification Director
EFR Certification
Johor Bahru, Malaysia

Operational Diagnosis – Application of Balance Scorecard and Value Stream Mapping to Identify Operational Improvement Opportunities

11:30 – 1:00, TUESDAY  Undergraduate Student Paper Competition  Dao

ID 182  Management of Toxic and Hazardous Chemicals from Electronic Devices Using Supply Chain Concept
Shahrin Iqbal, Department of Electrical and Electronic Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh
Salma Akhter, Department of Chemical Engineering and Polymer Science, Shahjalal University of Science and Technology, Sylhet, Bangladesh

ID 343  Increasing the Productivity of Health Facilities in Urban Areas in México
Adrián Aguado, Sandra Garza, Jenny Díaz-Ramírez and Johana González, Department of Industrial Engineering, Universidad de Monterrey, San Pedro Garza García, N.L., Mexico

ID 428  Automatic Bicycle Gearshift: A Disruptive Innovation and Design Thinking Perspective
Richardo Rusli, Muhammad Iqbal, Shevany and Natanael Avellino, Computer Engineering Department, Students of Binus ASO, School of Engineering, Bina Nusantara University, Jakarta, Indonesia
Khristian Edi Nugroho Soebandrija, Faculty Member of Industrial Engineering Department and Binus ASO, School of Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 539  Increasing Value Added in an Automotive Assembly Line - A Case Study
Michelle Eugenia Sánchez Barrientos, Valeria Argumedo Hinojosa, Fabiola Mercedes Arango García, Teresa Verduzzo-Garza and Jesús Vázquez, Fernando González-Aleu, Department of Engineering, Universidad de Monterrey, Nuevo León, México

ID 601  Usability Evaluation of an Educational Management System affecting the User – Satisfaction among Tertiary Students in an Undergraduate Engineering Program in the Philippines
Alec Steven L. Ardan, Mariel Jorinda G. Garcia, Vanessa G. Tenio and Yoshiki B. Kurata, Department of Industrial Engineering, Technological Institute of the Philippines, Quezon City, Philippines

ID 605  Life Cycle Assessment of Rice Processing
S. Kamalakkannan and Asela K. Kulatunga, Department of Manufacturing & Industrial Engineering, University of Peradeniya, Sri Lanka

11:30 – 1:00, TUESDAY  Supply Chain Management  Jovo

Session Chair: I Nyoman Pujawan, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

ID 123  A Fuzzy Supplier Selection Model considering Social Responsibility in Supply Chain
Abolfazl Aliakbari, Faculty of Industrial and Mechanical Engineering, Qazvin Branch, Islamic Azad University, Qazvin, Iran
Mehdi Selbarghy, Department of Industrial Engineering, Alzahra University, Tehran, Iran
Davar Pishva, Faculty of Asia Pacific Studies, Ritsumeikan Asia Pacific University, Beppu, Japan

ID 132  A Structured Literature Review of the Supply Chain Practices in Food Processing Industry
Rahul S Mor, Arvind Bhardwaj, Sarbjit Singh, Department of Industrial and Production Engineering, National Institute of Technology, Jalandhar, India

ID 137  Supplier Selection of Technical Goods Using AHP Methods
Fatkhor Rozi and Evy Herowati, Industrial Engineering, Engineering Faculty, University of Surabaya, Surabaya, Indonesia

ID 144  Supply Chain Coordination with Contracts under Bilateral Asymmetric Information
Yang Liu and Yang Zhang Department of Industrial Engineering, Tsinghua University, Beijing, China

ID 154  Modeling of Multimodal Transportation Problem Considering Carbon Emission
Thina Ardliana, Shipbuilding Institute of Polytechnic Surabaya, Doctoral Student at Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia
I Nyoman Pujawan and Nurhadi Siswanto, Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

ID 673  Procurement Strategy and Supply Risk Analysis of Coal by Considering Price Fluctuation and Supplier Delivery Time
Arie Bagus Wibowo and I Nyoman Pujawan, Industrial Engineering Study Program, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

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<tr>
<td>045</td>
<td>Lean Manufacturing Adoption in the Transport and Logistics Sector of Thailand – An Exploratory Study</td>
<td>Jose Arturo Garza-Reyes and Simon Peter Nadeem, University of Derby, UK</td>
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<td>Sarita Tangkeow, The University of Warwick Coventry, UK</td>
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<td>Vikas Kumar, Bristol Business School University of the West of England Bristol, UK</td>
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<td>065</td>
<td>Optimising Service Centre Competitiveness using Lean Enterprise Philosophy and Simulation Techniques</td>
<td>Grace Mukondeleli Kanakana and Olasumbo Ayodeji Makinde, Faculty of Engineering and the Built Environment, Tshwane University of Technology Pretoria West, South Africa</td>
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<td>080</td>
<td>Implementation of Lean Manufacturing System to Eliminate Wastes on the Production Process of Line Assembling Electronic Car Components with WRM and VSM Method</td>
<td>Muhammad and Yadrifil, Department of Industrial Engineering (IE UI), Faculty of Engineering, Industrial Engineering Department, Fakultas Teknik - Universitas Indonesia, Depok, Indonesia</td>
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<td>111</td>
<td>Using Discrete Event Simulation to Evaluate the Performance of Lean Manufacturing Implementation: A Case Study of an Electronic Manufacturer Company</td>
<td>Ahmad Nazif Noor Kamar and Cheng Jack Kie, Faculty of Industrial Management, Universiti Malaysia Pahang, Kuantan, Pahang, Malaysia</td>
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<td>325</td>
<td>Improvement Optimization for DMAIC Methodology: A Case Study</td>
<td>Gamal Mohamed Nowara, Mohammad Abdel Halim Mansour and Islam Sharafeldin, Industrial Engineering Dept., Zagazig University, Cairo, Egypt</td>
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<td>524</td>
<td>The Performances of Process Capability Indices in the Six-Sigma Competitiveness Levels</td>
<td>Vimal Kumar, Department of Management Studies, National Institute of Technology Bhopal, India</td>
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<td>Pratima Verma, Department of Industrial &amp; Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India</td>
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<td>Vignaesh Muthukumaar, Consultant, EXL Services, Bengaluru, India</td>
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<td>652</td>
<td>Characterization of Geotextile Material for Downhole Application</td>
<td>Noor Ilyana Ismail, Arurin Prakasan, Angga Pratama Herman and M Luqman Hasan, Petroleum Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 32610, Perak, Malaysia</td>
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<td>Nasimam Sapari, Civil Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 32610, Perak, Malaysia</td>
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<td>653</td>
<td>Management of the Ground Engaging Tools through Using Classification and Forecast</td>
<td>Ilyas Masudin and Gilang Yandeza, Dept. of Industrial Engineering, Universitas Muhammadiyah Malang, Jalan Raya Tiogomas, Malang, Jawa Timur</td>
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<td>656</td>
<td>The Impact of Sand Particle Size and Velocity on Sand Erosion of Stainless Steel Plate using Sand Blasting Technique</td>
<td>Angga Pratama Herman, Noor Ilyana Ismail, Muhammad Asnawi Vaea and Muhammad Luqman Hasan, Petroleum Engineering Department, Universiti Teknologi PETRONAS, Bandar Seri Iskandar, 32610, Perak, Malaysia</td>
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<td>666</td>
<td>Quality Improvement in Plastic Injection Molding Industry: Applying Lean Six Sigma to SME in Kuwait</td>
<td>Alaa Aishammari, Sahar Redha, Shahad Hussain, Tuleen Nazzal, Zahraa Kamal, and Walid Smew, Industrial Engineering Department, American University of the Middle East (AUM), Eqaila, Kuwait</td>
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<td>156</td>
<td>Scheduling security personnel for Multiple Security Gates</td>
<td>Abdulaziz S Alzahrani and Hesham K. Alfares, Systems Engineering Department, King Fahd University of Petroleum &amp; Minerals, Dhahran, Saudi Arabia</td>
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<td>221</td>
<td>A Mathematical Model for Outbound Truck Scheduling with Multiple Trips in Multi-Door Cross Docking System</td>
<td>Nattapong Kamsura and Warisa Wisittipanich, Dept. of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand</td>
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<td>370</td>
<td>Integrated Management Framework for Carbon capture and storage (CCS)</td>
<td>Nooshin Jabbari, Petroleum University of Technology, Malaysia and Renewable energy manager in city bank of Iran</td>
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<td>Amirreza Behraavankia, Faculty of Engineering, Islamic Azad University of Mashhad, Iran</td>
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<td>363</td>
<td>Sensitivity Analysis of the Gas Compressibility Factor</td>
<td>Walid Mahmud and Saber Elmabrouk, University of Tripoli, Libya</td>
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<td>Hassan Sbiga, Libyan Petroleum Institute, Libya</td>
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<td>418</td>
<td>Optimization using Decisions Analysis and Linear Programming at PT GMS</td>
<td>Bachtiar H. Simamora, Leader Performance Excellence Reasearch Group, Bina Nusantara University, Indonesia</td>
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**Other Sessions**

**Undergraduate Research Competition**

Session Chair: Mizanur Rahman, UTM, Malaysia

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**Operations Research**

Session Chair: Bachtiar H. Simamora, Bina Nusantara University, Indonesia

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<td>Hassan Sbiga, Libyan Petroleum Institute, Libya</td>
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</table>
ID 680  Supplier Selection using Analytical Hierarchy Process for Dairy Industry in Indonesia
Dewanti Anggrahini, Imam Baihaqi and Putri Candra Anggani, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia

ID 681  Methods to mitigate supply chain risks related to freeze-dried fruit importation to South Africa
Kyra Styles, Joanne Keyser, Ashleigh Boaman and Sebonkile Thaba, Department of Transport and Supply Chain Management, University of Johannesburg, Johannesburg, South Africa

1:00 – 2:30 pm – Tuesday Lunch Keynote and Networking

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

*Systems Thinking Applied in a University*

Session – Tuesday (March 6): 2:30 – 4:00 pm

2:30 – 4:00, TUESDAY  Global Engineering Education III  Kapla
Session Chair: Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia

2:30 – 3:00 (Tuesday)

Dr. Jafri Mohd Rohani
Head of the Industrial Engineering Programme
Department of Materials, Industrial and Manufacturing Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Malaysia

*Enhancing Outcome Based Education Industrial Engineering Curriculum at Universiti Teknologi Malaysia*

3:00 – 3:30 (Tuesday)

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

3:30 – 4:00 (Tuesday)

Dr. Hongyi Sun
Associate Professor
Department of Systems Engineering and Engineering Management
City University of Hong Kong
China

*Technology-Based Entrepreneurship*

2:30 – 4:00, TUESDAY  Industry Solutions III  Rubix
Session Chair: Dr. Murphy Choy, SSON Analytics, Singapore

2:30 – 3:00 (Tuesday)

Indra Gunawan, PhD, MSCE, BEng
Associate Professor in Complex Project Management
Director of Project Management Program
Entrepreneurship, Commercialisation and Innovation Centre (ECIC)
Faculty of the Professions
The University of Adelaide
Adelaide, Australia

*A Complex System Approach in System Reliability Analysis*
### PARALLEL SESSIONS

#### March 6-8, 2018

**3:00 – 3:30 (Tuesday)**

**Navpreet Singh Chandok**  
O2i Technologies  
India

**3:30 – 4:00 (Tuesday)**

**Dr. Murphy Choy**  
Director of Operations and Technology  
SSON Analytics  
Singapore

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**2:30 – 4:00, TUESDAY**

**Doctoral Dissertation Competition**  
Dao

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<td>072</td>
<td>Multi-Criteria Decision-Making Optimization for Reverse Supply Chains</td>
<td>Bandar A. Alkhayyal, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia</td>
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| 251  | The Effects of Steam Commingled Injection in Heavy Oil Production from FNE and Bamboo Sudanese Fields (Steam Adsorption and Distribution Challenges) | Husham A. Elbaloula, Sudan University of Science and Technology, Petro-Energy-E&P, PDOC & PE Tower, Khartoum, Sudan  
Tagwa A. Musa, College of Petroleum Engineering & Technology, Sudan University of Science and Technology, Khartoum, Sudan |
| 433  | Trilogy of Service Innovation’s Antecedents: Doctoral Dissertation Paper on Banking’s Financial and Non-Financial Performance | Khristian Edi Nugroho Soebandrija, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia |
| 532  | Equal Distribution of Shortages in Supply Chain Problem of Food Corporation of India | Vimal Kumar, Department of Management Studies, National Institute of Technology Bhopal, India |
| 622  | Framework towards Successful Factors of Business Incubator for Indonesian Public Universities | Lina Gozali, Tarumanagara University, Indonesia  
Maslin Masrom, Teuku Yuni M. Zagloel and Habibah @ Norehan Haron, Universiti Teknologi Malaysia |

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**2:30 – 4:00, TUESDAY**

**Supply Chain Management**  
Jovo

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<td>Lean Assessment in a Cross-Docking Distribution Center</td>
<td>Ammar Mohamed Aamer, Faculty of Engineering and Technology, Sampoerna University, Jakarta, Indonesia</td>
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<td>310</td>
<td>Productivity Improvement with Short-Term Quantitative Forecasting Method Case Study on ABC Store - Tokopedia and Bukalapak</td>
<td>R Bagus Yosan and Muhammad Kholi, Industrial Engineering, Universitas Mercu Buana, Meruya Selatan, DKI Jakarta, Indonesia</td>
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<td>457</td>
<td>Procurement Performance Measurement: Opportunities and Challenges</td>
<td>Elisa Kusrini, Magister of Industrial Engineering and Industrial Engineering Department, Indonesian Islamic University, Indonesia</td>
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| 658  | Integrated Supply Chain Risk Management in Ready Mix Batching Plant   | Anggniani Profita and Puspita Mahardhika Ramadhania, Industrial Engineering DeptT. Mulawarman University, Samarinda, East Kalimantan, Indonesia  
Wiwin Widiasih, Industrial Engineering Department, 17 Agustus 1945 University, Surabaya, East Java 60118, Indonesia |
| 709  | Procurement Related Risks in the Gauteng Public Sector               | Cynthia Ziqubu, Nelisiwe Dlamini and Sebonkile Thaba, Department of Transport and Supply Chain Management, College of Business and Economics University of Johannesburg, Johannesburg, South Africa |
| 621  | The Impact of Supplier Development Practices of Retailers and Buyer Supplier Relationship on the Performance of Suppliers in the Clothing Industry in Sri Lanka | H. L. M. De Silva, Department of Operations Management, Faculty of Management, University of Peradeniya, Sri Lanka  
P. G. A. Jayaratne, Dept. of Marketing Management, Faculty of Management Studies and Commerce, University of Sri Jayewardenepura, Sri Lanka |

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**2:30 – 4:00, TUESDAY**

**Quality Control and Management**  
Ludo

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<td>407</td>
<td>Evaluating the impact of Quality Assurance and Control on the Performance of South African Food Manufacturing Industry</td>
<td>Pule Aaron Kholopane and Ndala Yves Mulongo: Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park 2006, South Africa</td>
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</table>
ID 455  **Quality Assessment of Nylon Filament Yarn Product Using DMAIC Method and Failure Mode and Effect Analysis (FMEA) Method**  
Muhammad Kholil, Hendri and Bethrizia Hanum, Industrial Engineering Department, Faculty of Engineering, Universitas Mercu Buana, Jl. Meruya Selatan No.1 Kembangan, Jakarta Barat, Indonesia

ID 461  **Two-Way Radio Line Productivity Improvement Using Lean Six Sigma**  
Norzima Zulkifli and Mohd Zahreen Firdaus Mustapha, Department of Mechanical and Manufacturing Engineering, University of Putra Malaysia

ID 474  **Designing Customer Satisfaction Measurement System for a SME Laundry Services Company**  
Tri Rakhmawati, Sri Sumaedi and I Gede Mahatma Yuda Bakti, Research Center for Quality System and Testing Technology, Indonesian Institute of Sciences, South Tangerang, Banten, Indonesia

ID 535  **The Application of Design of Experiment for Improvement on Filtration Process of Thickness Chicken Soup Manufacturing throughout Cooperative and Work Integrated Education Program (CWIE)**  
Jedsada Tipmontian and Nahathai Thapanawichit, Department of Agro-Industry Technology and Management, Faculty of Agro-Industry, King Mongkut’s University of Technology North Bangkok Noenhom, Muang Prachinburi, Prachinburi, Thailand

ID 179  **Maintenance System of Universal Goss Printing Machine based on failure data using RCM and RCS method**  
Fransiskus Tatas Dwi Atmajji, Telkom University, Indonesia

2:30 – 4:00, TUESDAY  
**Operations Research**  
Session Chair: T Chingono, University of Johannesburg, South Africa

ID 326  **PERT-Type System Application on Food Industry to Reduce CIP Cycle Time**  
Rianita Puspa Sari, Razan Nayif Hasanain and Ade Momen Subagyo, Department of Industrial Engineering, State University of Singaperbangsa Karawang, Karawang, Jawa Barat, Indonesia

ID 481  **Model Scheduling with Dynamic Trip for Public Transportation**  
Andreas Tri Panudju, Department of Industrial Engineering, Trisakti University, Jakarta, Indonesia  
Listiawati, Management Department, Bina Bangsa University, Serang, Indonesia

ID 684  **South African Humanitarian logistics aspects of emergency preparedness against Natural Disasters**  
T Chingono and C Mbohwa, University of Johannesburg, South Africa

ID 685  **Xenophobia in South Africa and its relation to Humanitarian Logistics**  
T Chingono and C Mbohwa, University of Johannesburg, South Africa

ID 022  **Use of Improvement Heuristics for Solving a Vehicle Routing Problem: The Case of a Moroccan Company**  
Imane Moufad and Fouad Jawab, Laboratory of Manufacturing, Energy and Sustainable Development College of Technology, Fez, Morocco

ID 023  **A Methodology for Measuring the Ecological Footprint of Freight Transport in Urban Areas: A Case Study of a Moroccan City**  
Imane Moufad and Fouad Jawab, Sidi Mohamed Ben Abdellah University, Fez, Morocco

2:30 – 4:00, TUESDAY  
**Engineering Management**  
Session Chair: Rene D. Estember, Mapúa University, Manila, Philippines

ID 429  **Project Risk Management: The Role of Stakeholder Analysis**  
Rufaidah Yousef AlMaian, Industrial and Management Systems Engineering Department, Kuwait University, Kuwait  
Amani Sulaiman Bu Qammaz, Civil Engineering Department, Kuwait University, Kuwait

ID 507  **Digital Terrestrial TV in Philippines: What is in for the media consumer?**  
Rex Mervin P. Ramos, School of Graduate Studies, Mapúa University, Manila, Philippines

ID 705  **Corporate Social Responsibility (CSR) and Financial Performance: A Study of Indian Companies**  
Harsha Vinay and Shekar Babu, Department of Management, Amrita Vishwa Vidyapeetham University, Bangalore, India

ID 515  **A Framework for Evaluating the Performance of Supply Chain Risk in E-commerce**  
Abraham Stefanus and Markus Hartono, Industrial Engineering, Engineering Faculty, Universitas Surabaya, Surabaya, Indonesia

ID 565  **Cost Analysis: Power Generation Plants versus Demand Side Management Programmes**  
Ndala Yves Mulongo, Annalize Marnewick, Daniel de Canha, Faculty of Engineering and the Build Environment, University of Johannesburg, Auckland Park, South Africa
ID 580  The Influence of Internal Auditors And Organizational Justice With Company Code of Practice As Moderating Variables Against Fraud Prevention Through Employee Perceptions In PT Jaya Konstruksi Manggala Pratama Tbk
Luqman Hakim, M. Si, Doctoral Program of the Finance Management, Faculty of Graduate Studies University Mercu Buana, Jakarta, Indonesia
Sabil, SE, MM, Doctoral Program of Business Management, Pancasila University, Jakarta, Indonesia

4:00 – 4:30: Break

Session – Tuesday (March 6): 4:30 – 6:00 pm

4:30 – 6:00, TUESDAY  Global Engineering Education IV: PANEL SESSION  Kapla
Session Chair: Dr. Abu Masud, Wichita State University, Wichita, Kansas, USA

Panelists

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<td>Boeing Global Engineering Professor</td>
<td>Professor, Industrial and Systems Engineering</td>
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<td>Professor of Industrial and Manufacturing Engineering</td>
<td>Texas A&amp;M University (College Station)</td>
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<td>Wichita State University</td>
<td>Professor of Mechanical Engineering and Director of Academic Outreach</td>
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<tr>
<td>Kansas, USA</td>
<td>Texas A&amp;M University Qatar, Doha, Qatar</td>
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<th>Dr. Albertus Retnanto</th>
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<tr>
<td>Associate Professor</td>
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<tr>
<td>Petroleum Engineering</td>
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<td>Texas A&amp;M University at Qatar</td>
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<td>Doha, Qatar</td>
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<tr>
<td><strong>Assessing and Documenting Students Competencies in their Respected Disciplines</strong></td>
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</tbody>
</table>

4:30 – 6:00, TUESDAY  Industry Solutions VI  Rubix
Session Chair: Farrah “Nix” A. Juban, Intel Corporation, Penang, Malaysia

4:30 – 5:00 (Tuesday)

**Md Kawsar Ali**
Chief Operating Officer
Comfit Composite Knit LTD
Dhaka, Bangladesh
5:00 – 5:30 (Tuesday)

**Innah Dominique J. Puertollano, CIE, CLSSBB**
Project Manager
AXA Philippines

5:30 – 6:00 (Tuesday)

**Farrah “Nix” A. Juban**
Process Engineering Excellence & Kaizen Service Program Manager for Assembly and Test Manufacturing
Intel Corporation
Penang, Malaysia

4:30 – 6:00, TUESDAY  Masters Thesis Competition  Dao
Session Chair: Dr. Suat Kasap, American University of the Middle East, Kuwait

ID 047  Analysis Heterogeneous Human Sensory Data from Product Exterior Design Using BRSM
Muhammad Reza Do. Bagus, School of Information Management and Computer Tidore Mandiri, Indonesia
Muhammad Fikri Do. Bagus, Information Engineering Department Gunadarma, University, Indonesia

ID 052  An Engineering Model for Healthcare Devices to Control, Detect, and Diagnose Medical Errors
Farzad Firooi, gahantigh and Atefeh Batani, Department of Industrial Engineering University of Sistan and Baluchestan, Zahedan, Iran

ID 504  Supplier Relationship Management Based On Process Capability Index for Multiple Characteristics
Erik Bagus Prasetyo and Nani Kurniati, Industrial Engineering Department Gunadarma, University, Indonesia

ID 621  The Impact of Supplier Development Practices of Retailers and Buyer Supplier Relationship on the Performance of Suppliers in the Clothing Industry in Sri Lanka
H. L. M. De Silva, Department of Operations Management, Faculty of Management, University of Peradeniya, Sri Lanka
P. G. A. Jayaratne, Dept. of Marketing Management, Faculty of Management Studies and Commerce, University of Sri Jayewardenepura, Sri Lanka

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### Supply Chain Management

**ID 479** Supplier selection through Attractive criteria: a Fuzzy Kano based integrated MCDM approach  
Naveen Jain, Department of Mechanical Engineering, Shri Shankaracharya Institute of Professional Management and Technology, Raipur, India, Vinay Surendra Yadav; H.K. Narang and A. R. Singh, Dept. of Mechanical Engineering, National Institute of Technology Raipur, Chhattisgarh, India

**ID 498** Design Mitigation of Blood Supply Chain Using Supply Chain Risk Management Approach  
Roy Enggar Achmadi and Agus Mansur, Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta, Indonesia

**ID 505** Optimization of Supply Chain Network Design for Multiple-Channel Distribution  
Naveen Jain, Department of Mechanical Engineering, Shri Shankaracharya Institute of Professional Management and Technology, Raipur, India

**ID 541** Fuzzy House of Risk (FHOR) to Manage Supply Chain Risk  
Widya Nurcahayanty Tanjung, Selma Intan Praditya Sari Himawan and Syarif Hidayat, Industrial Engineering, Faculty of Science and Technology, Al Azhar Indonesia University, Jakarta, Indonesia

**ID 556** System Dynamics Approach to Supply Chain Performance Measurement in Small and Medium Enterprise  
Keifa Vamba Konneh and Azanizawati Ma'aram, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia

**ID 679** Development of Sustainable Urban Water Management (Suwm) Index in Surabaya City for Development City  
Puspa Dewi KKSP and Maria Anityasari, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember Surabaya, 60111, Indonesia

### Reliability and Maintenance

**ID 124** Reliability Centered Maintenance and Reliability Centered Spares for Maintenance and Spareparts Policies: Case Study Goss Universal Printing Machine in Printing Company  
Judi Alhilman and F. Tatas Dwi Atmaji, School of Industrial and Systems Engineering, Telkom University, Bandung, West Java, Indonesia

**ID 145** A Model for Turnaround Maintenance Planning for a Network of Plants  
Umar Al-Turki, Salih Duffuaa, and Mohamed Idris, Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

**ID 180** A Framework of Wireless Maintenance System Monitoring Based Cloud Technology  
Fransiskus Tatas Dwi Atmaji, Telkom University, Indonesia

**ID 568** Measuring Robustness of Water Distribution Networks Using Informational Entropy (Revised)  
Seyed Ashkan Zarghami, Indra Gunawan and Frank Schultmann, Entrepreneurship, Commercialisation & Innovation Centre (ECIC), The University of Adelaide, Australia

**ID 651** The Impact of Fleet Size on Remanufactured Product with Usage-based Maintenance Contract  
H. Husnia, Department of Industrial Engineering, Langlangbuana University, Karapitan, Bandung, Indonesia

**ID 695** Continuous Improvement Behaviours in Malaysian Manufacturing Companies  
Affandi Mohd-Zainal and Sabariah Sulaiman, Department of Materials, Manufacturing & Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor Bahru, Malaysia

**ID 508** Integration of maintenance and quality control policy based on variable sampling plan using process capability index  
Shofi Fitrotis Salimah and Nani Kurniati, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

### Operations Management

**ID 032** Reducing the Capacitated Lot Sizing Problem (CLSP) With Set Up, Production, Shortage and Inventory Cost To CLSP with Set Up Production and Inventory Cost  
RRK Sharma and Vinayak A. Drave, Department of Industrial Engineering, Indian Institute of Technology Kanpur, India

**ID 078** Performance-Based Contracts for Energy Efficiency Projects  
Liang Ding, University of Michigan, Stephen M. Ross School of Business, USA

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**ID 127**  
Zarak Sh. Zamrah and Safian Sharif, Department of Mechanical Engineering, University of Technology Malaysia, Skudai, Johor, Malaysia

**ID 136**  
Sustainability in Municipal Water Utilities Operations: Among Regions and Scales  
Marga Gumelar, Faculty of Economics and Business, Universitas Padjadjaran, Bandung, Jawa Barat, Indonesia

**ID 177**  
Application of Hidden Markov Model in Crude Oil Price Forecasting  
Abdul Talib Bon and Nuhu Isah, Faculty of Technology Management, Business and Entrepreneurship, University Tun Hussein Onn Malaysia

**ID 149**  
Effect of Culture on Consumer Switching: Moderating Role of Involvement and Value of Services  
Anjali Sharma and R.R.K. Sharma, Dept. of Industrial & Management Engineering, Indian Institute of Technology-Kanpur, India

**ID 217**  
A Framework Toward Successful Business Incubator for Indonesian Public Universities: A Pilot Review  
Lina Gozali, Maslin Masron, Habibah @ Norehan Haron, Teuku Yuri M Zagloel, and Eduard Tjahjadi  
1Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia, Jalan Sultan Yahya Petra, 54100 Kuala Lumpur, Malaysia  
2Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S Parman No 1, Jakarta, 11440, Indonesia  
3Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, Kampus UI, Depok, 16424 West Java

**ID 252**  
An Interplay between Employee Psychological Capital, Organizational Fit, and Work Well-Being on Organizational Commitment: An Empirical Study on E-Commerce Industry in Indonesia  
Rizal Nangoy and Mohammad Hamsal, Doctor of Research in Management, Binus University, Jakarta, 10270, Indonesia

**ID 253**  
Creating Innovative Work Behavior: The Roles of Self Efficacy, Leader Competency, and Friendly Workplace  
Henny Santoso and Asnan Furinto, Doctor of Research in Management, Binus University, Jakarta, Indonesia

**ID 320**  
Implications of Human Resource Management against Organizational Culture, Work Motivation, Job Satisfaction and Employee Performance at State Own Enterprise Hospitals in Indonesia (Empirical Study on the 5 Biggest Pertamina Hospitals in Indonesia)  
Uli Wildan Nuryanto and Asep Saefudin, Doctoral Student, Postgraduate Program University, Mercubuana, Jakarta, Indonesia

**ID 334**  
A Critical Evaluation of Climate-Related Risks Associated with Oil and Gas Industry in Libya  
Taher Elmhidwi, Productions Chemistry Labs, Mellitah Oil & Gas B.V, Libyan Branch, Tripoli, Libya  
Saber Elmabrouk, Department of Petroleum Engineering, Faculty of Engineering, University of Tripoli, Tripoli, Libya  
Tawfik Elmhedwi, Department of Engineering Management, School of Applied Science and Engineering, The Libyan Academy, Tripoli, Libya

**ID 576**  
Does Emotional Intelligence Influence Organizational Citizenship Behavior among Engineers? A Conceptual Paper  
Jen Ling Gan and Halimah M. Yusof, Faculty of Management, Universiti Teknologi Malaysia, UTM Skudai, Johor, Malaysia

**ID 690**  
A Comparative Study of Physical and Mechanical Properties of Wood Plastic Composite Produced from Different Agriculture Residues  
Noor Affah Airiffin, Nuraini Nabila Hasilzam, Saidatul Asyliyah Samsurrijal, Mohamad Ali Selimin, Norpadzilhatun Manap, and Lee Te Chuan, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja 86400, Batu Pahat, Johor, Malaysia  
Hasan Zuhudi Abdullah, Maizlinda Izwana Idris, Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja 86400, Batu Pahat, Johor, Malaysia

**ID 691**  
Stylish Coffee Table Influence by Modular Concept for Student Center  
Muhammad Fikri Bin Harun, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Malaysia  
Juliana Abdul Halip, Furniture Design and Manufacturing Department Universiti Tun Hussein Onn Malaysia Parit Raja, 86400 Batu Pahat, Malaysia
ID 692  Conceptual Design of Modern Minimalist Dining Table Inspired by British Military Uniform  
Nur Afiqah Mohd Ramli, Mohamad Ali Selimin, Abdullah Al Rashid Ab Hamid, Abdul Talib Bon, Wan Nurami Rahim, and Juliana Abdul Halip, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, 86400 Batu Pahat, Johor, Malaysia

ID 693  The Effectiveness of Conveyor Layout affected Production Output using Arena Simulation Software  
Ahmad Nur Aizat Ahmad, Nor Alia Fatin, Md Fauzi Ahmad, Raziff Buyong, Department of Production and Operation, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja, Batu Pahat, Johor, Malaysia  
Fazeeda Binti Mohamad, Faculty of Industrial Management, Universiti Malaysia Pahang, Malaysia  
Adnan Bakri, Facilities Maintenance Engineering Department, Universiti Kuala Lumpur – Malaysian Institute of Industrial Technology, Malaysia  
Mustaqqim Abdul Rahim, Department of Civil Engineering, School of Environmental Engineering, Universiti Malaysia Perlis (UniMAP), Malaysia

ID 694  Application of Queuing Theory Model and Simulation to Patient Flow at the Outpatient Department  
A.H. Nor Aziati and Nur Salsabilah Binti Hamdan, Department of Production and Operation, Faculty of Technology, Management and Business, University Tun Hussein Onn Malaysia (UTHM), Parit Raja, Batu Pahat, Johor, Malaysia

6:00 – 7:30 (Tuesday) - Poster Session

Posters

Chair: Dr. Docki Saraswati, Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia

ID 039  Recent progress in the Use of Atomic Force Microscopy (AFM) Techniques in Biomedical Applications  
Ayesha Siddiqua and Zahid Hossain, Arkansas State University, Jonesboro, Arkansas, USA

ID 062  Saving Behaviors for Retirement among Government Officers at Sirindhorn College of Public Health, Praboromarjchanok Institute, Public Health Ministry  
Rujee Charupash Department of Geneducation, Sirindhorn College of Public Health Khon Kaen Province, Thailand

ID 141  Early Project-Management Performance and Project Outcomes Correlate  
Hong Long Chen, Department of Business and Management, National University of Tainan, Tainan, Taiwan

ID 231  Analytical Hierarchy Process (AHP) Application of Selecting Corn Waste Production  
Tjutju Tarliah and Dedeh Kurniasih, Department of Industrial Engineering, Universitas Pasundan, Indonesia

ID 234  The Influences of Salary Level, Employee Satisfaction, and Organizational Commitment on Turnover Intention  
Luhur Prayogo and Zulfa Fitri Ikatnasari, Industrial Engineering Department, Mercu Buana University, Jakarta, Indonesia

ID 285  Contribution to the Integrated Evaluation of Business Management  
Hidelvys Cantero Cora, Elisa Leyva Cardenas and Daide Caridad Ibarra Miranda, Universidad de Holguin, Cuba

ID 408  Assessing the Performance of the South African Automobile Manufacturing Companies by means of Quality Management Practices  
Pule Kholopane and Ndala Yves Mulongo, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park, South Africa

Rosalendo Eddy Nugroho, Magister Manajemen Universitas Mercu Buana Jakarta, Indonesia  
Sawarni Hasibuan, Magister Teknik Industri Universitas Mercu Buana Jakarta, Indonesia

ID 423  Dynamics of a Small Scaled Men-Owned Business  
Anita Maharani, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia  
Irene Teresa Rebecca Hutabarat, BINUS Entrepreneurship Center, Bina Nusantara University, Jakarta, Indonesia

ID 448  Using MCDM approaches to rank different locations for harnessing wind energy to produce hydrogen  
Mostafa Rezaei and Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Yazd, Iran  
Hengameh Hadian, Department of Industrial Engineering, University of Nahavand, Nahavand, Iran

ID 449  Location optimization of hybrid solar- wind plants by using FTOPSIS method  
Mostafa Rezaei and Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Yazd, Iran  
Hengameh Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran

ID 467  The Integration of Kano's Model and Quality Function Deployment: A Case Study for Design of An Alternative Energy Utilization  
Rosnani Ginting and Juliza Hidayati, Departement of Industrial Engineering, University of North Sumatra, Medan, Indonesia

ID 482  Prediction of Project Completion Time using Robust Time Series Regression  
Hong Long Chen, Department of Business and Management, National University of Tainan, Tainan, Taiwan
High School and Middle School STEM Competition
Chair: Professor Don Reimer, Lawrence Technological University, MI, USA

ID 021 STEM Approach on Playing Video Games
Mason Chen, Six Sigma Black Belt, Stanford Online High School, CA, USA

ID 028 A Demonstration of the Difference between Binomial and Hypergeometric in Statistics
Yvanny Chang, Morrill Learning Center, San Jose, CA, USA

ID 029 Statistical Pi Simulation by Java
Katherine Lim, Eleanor Murray Fallon Middle School, CA, USA

ID 400 Statistical Basketball Player Analysis
Anna Wu, Big Data Science STEM Program (Morrill Learning Center), San Jose, CA, USA
Mason Chen, Six Sigma Black Belt, Stanford Online High School, CA, USA

ID 538 Extended Statistical JAVA Gaming Simulation
Timothy Liu, Mason Chen, and Joseph Jang, Lynbrook High School, Milpitas Christian School, and Monta Vista High School, San Jose, CA, USA

Senior Capstone Design Poster Competition
Chair: Dr. M. Shamsuzzaman, University of Sharjah, UAE

ID 607 Optimizing National Resource Usage through the Integration of University Shuttle Service with the Public Rail: The Case Study in Qatar University
Aisha A. Al-Hammadi, Amna A. Al-Baker, Jawaher A. Al-Fakhroo, Galal M. Abdella and Khalifa N. Al-Khalifa, Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar

ID 660 Coffee Shop Engineering: An Industrial Engineering Perspective
Jaber Al-Jabri, Mazen Al-Abri and Majid Al-oufi, Sultan Qaboos University, Oman

ID 663 Developing a Decision Support System for University/ College Selection Problem for Kuwait
Dana Abbas, Mariam Al-Ajmy, Marwa Ashknani, Fatema Bujaber, Maryam Khajah and Suat Kasap, Industrial Engineering Department, College of Engineering and Technology, American University of the Middle East- AUM, Egaila, Kuwait

Simulation and PLM Competition
Chair: Dr. Rohaizan Ramlan, Universiti Tun Hussein Onn Malaysia

ID 664 Simulation of Patient Flow and Healthcare Resources in a Hospital
Afnan Hamadah, Lina Handa, Nourhan Hasan, Samar Qutom, Yasmeen Sheeeb and Ufuk Kula, Industrial Engineering Department, American University of Middle East, Kuwait
March 7, 2018 (Wednesday)

Session: 8:00 – 9:30 am

8:00 – 9:30, WEDNESDAY    Global Engineering Education V    Kapla

Session Chair: Dr. Eldon Caldwell, University of Costa Rica

8:00 – 8:30 (Wednesday)

Dr. N. Vinod Chowdhary
Professor and Head
Department of Mechanical Engineering
SRK Institute of Technology
Vijayawada, Andhra Pradesh
India

Teaching, Learning & Accreditation

8:30 – 9:00 (Wednesday)

Jedsada Tipmontian
Executive Board Member
Thai Association for Cooperative Education (Public Relations)
Nonthaburi, Thailand
Lecturer
King Mongkut's University of Technology
North Bangkok, Thailand

Industrial and Systems Engineering Application through Cooperative and Work Integrated Education in Thailand

9:00 – 9:30 (Wednesday)

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

Coping with the Millennials

8:00 – 9:30, WEDNESDAY    Graduate Student Paper Competition    Rubix

Session Chair: Dr. Ahm Shamsuzzoh, Sultan Qaboos University, Oman

ID 568  Formulating Lignin Based Surfactant Using Extracted Lignin from Ultrasound-Assisted Technique for Surfactant Flooding
Kenny Ganie and Muhammad A Manan, Department of Petroleum Engineering, Universiti Teknologi Malaysia, UTM Skudai, Johor, Malaysia
Ahmad Kamal Idris, Department of Petroleum Engineering, Universiti Teknologi PETRONAS Seri Iskandar, Perak, Malaysia

ID 606  Optimizing National Resource Usage through the Integration of University Shuttle Service with the Public Rail: The Case Study in Qatar University
Aisha Al Hamadi, Amna Al Baker, Jawaher Al-Fakhroo, Galal Abdella and Khalifa Al-Khalifa, College of Engineering, Qatar University, Qatar

ID 650  Optimization of Urea Solution Tie-in System in the Urea Fertilizer Manufacturing
Muhammad Fariz Failaka and Ali Elkamel, Department of Chemical Engineering, University of Waterloo, Waterloo, ON N2L 3G1, Canada

ID 305  Applicability of ARIMA Models for Investigating the Effects of Technology Spillover on Car Manufacturing Companies' Performance
Mohammadhossein Khorshidnam, Arya Karami and Kaveh Mohammad Cyrus, Industrial Engineering Department, Amirkabir University of Technology, Tehran, Iran

ID 717  Implementation of Lean in Excavator Bucket Manufacturing Industry
Santosh Gudagunti, Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 719  Budget Airline Operations Optimization using Linear Programming.
Pankil Patel, Industrial Engineering, A. Leon Linton Dept. of Mechanical Engineering, Lawrence Technological University, Southfield, Michigan, USA

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### E-Business and E-Commerce

**Session Chair:** Agung Terminanto, Universitas Indonesia, Depok, Indonesia

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<th>ID</th>
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<tr>
<td>089</td>
<td>Determine the Influenced Factors of Facebook Ads Adoption by SMEs</td>
<td>Aulia F. Hadining and Sukanta, Industrial Engineering Department, State University of Singaperbangsa Karawang, Karawang, Indonesia</td>
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<td>307</td>
<td>Consumer Switching Behavior in E-Services: Organizational and Technological Antecedents through Relational Paradigm</td>
<td>Anjali Sharma and R.R.K. Sharma, Dept. of Industrial &amp; Management Eng., Indian Institute of Technology-Kanpur, U.P., India</td>
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<td>347</td>
<td>Implementation and Configurations Open Source ERP in e-Commerce Module using ASAP (A Case Study on SME)</td>
<td>Agung Terminanto, Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia</td>
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<td>608</td>
<td>Challenges of Digital Collaboration in the South African Construction Industry</td>
<td>Ayodeji Oke, Douglas Aghimien, Clinton Aigbavboa and Nteboheng Koloko, University of Johannesburg, South Africa</td>
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**Logistics Management**

**Session Chair:** Eric Wibisono, University of Surabaya, Indonesia

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<th>ID</th>
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<tr>
<td>102</td>
<td>District Model with Multiple Types of Vehicles for Transporting Sugarcane</td>
<td>Rujirat Patcharamethanon and Kanchala Sudtachart, School of Manufacturing Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand</td>
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<tr>
<td>104</td>
<td>A Simple Algorithm to Validate Triangular Inequalities in Routing Problems</td>
<td>Eric Wibisono, Dept. of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia</td>
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<td>445</td>
<td>The Relationship between Information Technology and Halal Logistics</td>
<td>Ratih Hendayani, School of Economics and Business, Telkom University, Bandung, Indonesia Graduate School of Business, Universiti Sains Malaysia, Penang, Malaysia Yudi Fernando, Faculty of Industrial Management, Universiti Malaysia Pahang, Pahang, Malaysia Yuvraj Ganesan, Graduate School of Business, Universiti Sains Malaysia, Penang, Malaysia</td>
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<td>438</td>
<td>Understanding Supply Chain Resilience: A Business Dynamics Approach using Theory of Constraints Thinking Process</td>
<td>Mohamed Hicham Salah Eddine, Mohamed V University of Rabat, Morocco Tarik Saikouk, Université Internationale de Rabat, Morocco Abdelaziz Berardo, EMI, Morocco</td>
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**Reliability and Maintenance**

**Session Chair:** G. Gupta, Birla Institute of Technology and Sciences, Pilani, India

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<tr>
<td>313</td>
<td>Overall Equipment Effectiveness (OEE) at the Laboratory of Structure Testing</td>
<td>Rahmat Nurcahyo, Faisal, Muhammad Dachyar and Muhammad Habiburrahman, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, Indonesia</td>
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<td>365</td>
<td>An Optimal Integrated Maintenance Policy for a Pro-Rata Warranty Model</td>
<td>Hajj Zied and Rezg Nidhal, Laboratory of Industrial Engineering of Production and Maintenance, Lorraine University, Metz, France</td>
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<td>454</td>
<td>Risk Assessment Study within Manufacturing/Remanufacturing System through Maintenance Actions</td>
<td>Sadok Turki, LGIPM, France</td>
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</table>
ID 486  Application of Reliability Engineering Method in Sugar Refinery Industry
N Sembiring, E Ginting and T Daniello, Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, Jalan Almamater Kampus USU, Medan 20155, Indonesia

ID 545  Computerized Maintenance Management System for the Philippines’s Railway Transit
Rene Estember, Beatrice Michaela Felipe and Maria Patricia Javier, Mapua University, Philippines

ID 598  Development of a Framework for Reliability Centered Maintenance
G. Gupta, R. P. Mishra and N. Mundra, Dept. of Mechanical Engineering, Birla Institute of Technology and Sciences, Pilani (Raj), India

ID 443  Life Cycle Value Stream Mapping (LC-VSM): The Application in Two Bottle Drinking Water Companies
Windy Megayanti, Maria Anityasari and Udisubakti Ciptomulyono, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

8:00 – 9:30, WEDNESDAY  Operations Management  Shogi
Session Chair: Ndala Yves Mulongo, University of Johannesburg, Auckland Park, South Africa

ID 206  Exploring the Synergistic Nature of Combinations of Various Functional Flexibility of Manufacturing Organizations
Somen Dey and R.R.K. Sharma, Department of Industrial and Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India

ID 207  Analysis of the Operations Management Strategy of a Telecommunication Company in Malaysia
Habibah Noerhan Haron, Universiti Teknologi Malaysia

ID 232  Impact of Capacity Loss Factors in front-of-line IC Packaging on Production Performance: A Case Study
Lee Hauen Yen, School of Mechanical Engineering, Universiti Sains Malaysia, Engineering Campus, Nibong Tebal, Pulau Pinang, Malaysia
Shahrol Kamaruddin and Zulhimi Paiz Ismail, Mechanical Engineering Department, Universiti Teknologi Petronas, Perak, Malaysia
Joshua Prakash, Faculty of Engineering and Green Technology, Universiti Tun Raja Perak, Kampar, Perak, Malaysia
Nik Mizamzul Mehat, Faculty of Engineering Technology, Universiti Malaysia Perlis (UniMAP), Padang Besar, Perlis, Malaysia

ID 295  The effect of Third Parties Fund, Non-Performing Loan, Capital Adequacy Ratio, Loan to Deposit Ratio, Return on Assets, Net Interest Margin and Operating Expenses Operating Income on Lending (Study in Regional Development Banks in Indonesia)
Sugeng Riadi, Program Doktor Manajemen, Pascasarjana Universitas Mercubuana, Universitas Mercubuana, Jakarta, Indonesia

ID 416  Measuring the EFFECTIVeness of Total Productive Maintenance in the South African Food Manufacturing Industry
Ndala Yves Mulongo and Pule Aaron Kholopane, Faculty of Engineering and the Built Environment, University of Johannesburg, Auckland Park, South Africa

ID 582  Process Value Analysis for Wood-Based Furniture Company in the Philippines using VA/VE Approach
John Paul E. Sison, Pauline Irish D. Jalac, Juan Miquel N. Dinglasan, Maricar M. Navarro, Arriane A. Palisoc and Mel Benjamien A. Torres, Department of Industrial Engineering, Technological Institute of the Philippines, Quezon City, Philippines

ID 424  Knowledge Management Enabler and Operational Performance in Indonesia Automotive Component Industry
Anita Silvianita, Business Administration, Faculty of Communication and Business, Telkom University, Bandung, West Java, Indonesia

ID 459  Core Competence Strategy Development of Batik Products in Pekalongan City
Fadilla Paramitha and Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia

ID 469  Enhancing the Carriers Synergy in the Full-Truck Transportation Industry
Chefi Triki, Mechanical and Industrial Engineering Department, Sultan Qaboos University, Muscat, Oman
9:30 – 11:00 am: **Wednesday Morning Keynote I & II** – Grand Ballroom

9:30 – 10:45 am: **Wednesday Morning Keynote I**

**Prof. Dr. Ir. Bermawi P. Iskandar**  
Vice Rector for Academic and Student Affairs  
Professor in Reliability and Quality Systems, Manufacturing Systems Research Group  
Faculty of Industrial Technology  
Bandung Institute of Technology, Bandung, Indonesia

10:15 – 11:00 am: **Wednesday Morning Keynote II**

**Professor Dr Hui-Ming Wee**  
Distinguished Professor, Department of Industrial and Systems Engineering  
Chaplain, Chung Yuan Christian University (CYCU)  
Former Associate Dean, College of Electrical Engineering & Computer Science  
Chung Yuan Christian University, Taipei, Taiwan

11:00 – 11:30 – Networking Break - Exhibition Hall

**Session – Wednesday (March 7): 11:30 am – 1:00 pm**

**11:30 – 1:00, WEDNESDAY**  
**Kapla**  
**Global Engineering Education VI**  
Session Chair: Dr. Chan Chee-Ming, Universiti Tun Hussein Onn Malaysia

*Workshop on Industrial Revolution 4.0 in Higher Education*

- **Dr. Chan Chee-Ming**  
  Associate Professor and Deputy Dean (Academic and Research)  
  Centre for Graduate Studies  
  Universiti Tun Hussein Onn Malaysia  
  Batu Pahat, Johor, Malaysia

- **Dr. Alina Shamsudin**  
  Associate Professor  
  Deputy Dean (Teaching, Learning and Academic Training)  
  Centre for Academic Development and Training  
  Universiti Tun Hussein Onn Malaysia  
  Johor, Malaysia

- **Dr. Azeanita Suratkon**  
  Senior Lecturer at the Faculty of Civil & Environmental Engineering  
  Lead – Department of Building and Construction Engineering  
  Universiti Tun Hussein Onn Malaysia  
  Johor, Malaysia

**11:30 – 1:00, WEDNESDAY**  
**Rubix**  
**Industry Solutions V**  
Session Chair: Dr. Kottala Sri Yogi, Guru Ghasidas Vishwavidyalya, Bilaspur, (C.G) India

11:30 – 12:00 (Wednesday)

**Dr. Abdul Talib Bon**  
Professor of Technology Management  
Department of Production and Operations Management  
Faculty of Technology Management and Business  
Universiti Tun Hussein Onn Malaysia

*Productivity Improvement in Assembly Line by Reduction Cycle Time Using Time Study at Automotive Manufacturer*
IEOM Bandung Conference  PARALLEL SESSIONS  March 6-8, 2018

12:00 – 12:30 (Wednesday)

Dr. Kottala Sri Yogi
Assistant Professor
Department of Industrial & Production Engineering
Institute of Technology
Guru Ghasidas Vishwavidyalaya (A Central University)
Bilaspur 495009 (C.G) India

An Investigation of Process Capability Indices: A Case of Soft Drinks Processing Unit

12:30 – 13:00 (Wednesday)

Mr. Hood Atan
EFR Certification
Johor Bahru, Malaysia

11:30 – 1:00, WEDNESDAY  Information Systems and e-Business  Dao

Session Chair: Abdelaziz Berrado, Ecole Mohammadia d’Ingénieurs, Morocco

ID 520  Time Table Scheduling for Educational Sector on an E-Governance Platform: A Solution from an Analytics Company
Vimal Kumar and Nagendra Kumar Sharma, Dept. of Management Studies, Maulana Azad National Institute of Technology (MANIT) Bhopal, India
Ankit Malviya, Indian Space Research Organization (ISRO), India
Pratima Verma, Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India
Vignaesh Muthukumara, Consultant, EXL Services, Bengaluru, India
Sunil Kumar Jauhar, Department of Mechanical Engineering, Maulana Azad National Institute of Technology, MANIT, Bhopal, India

ID 560  Identification Indicators and Variables to Measure the Implementation of Smart Safety and Security (a Study in Bandung City)
Indrawati and Mochamad Lufti Ariffianto, Telkom University, Telekomunikasi Terusan Buah Batu Bandung, Indonesia

ID 444  Creating a KPI Tree for Monitoring and Controlling Key Business Objectives of First Mile Logistics Services
Rathin Hendayani, School of Economics and Business, Telkom University, Bandung, Indonesia
Yudi Fernando, Faculty of Industrial Management, Universiti Malaysia Pahang, Pahang, Malaysia
Yuvaraj Ganesan, Graduate School of Business, Universiti Sains Malaysia, Penang, Malaysia

ID 478  Implementation and Management of ERP Systems: A Literature Review
Mohamed-Iliasse Mahraz and Loubna Benabbou, Equipe MOAD-SCM, Ecole Mohammadia d’Ingénieurs, Mohammed V University, Rabat, Morocco
Abdelaziz Berrado Equipe AMIPS, Ecole Mohammadia d’Ingénieurs, Mohammed V University of Rabat, Morocco

ID 665  How Can Large Collectives Solve Problems Using the Internet? (Breaking down Creative Tasks into Modular Crowdsourcing Tasks)
Mahir Pradana and Tri Indra Wijaksana, Department of Business Administration, Telkom University, Bandung, Indonesia

ID 711  Measuring the Value Added and Business Strategy: A Case of Property Corporations in Indonesia Stock Exchange
Katharina Priyatiningisih, H. Suryana, Agus Rahayu and Lili Adi Wibowo, Indonesia University of Education, Bandung, Indonesia

11:30 – 1:00, WEDNESDAY  Logistics Management  Jovo

Session Chair: Raafat Elshaer, Zagazig University, Egypt

ID 105  An Effective Genetic Algorithm for Capacitated Vehicle Routing Problem
Hadeer Awad, Raafat Elshaer, Adel AbdElmo’ez and Gamal Nawara, Industrial Engineering Department, Zagazig University, Zagazig, Egypt
Adel AbdElmo’ez, Industrial Engineering Department, College of Engineering, King Khaled University, KSA

ID 106  Resilience of Logistics Service Providers Facing a Port Strike: A Case Study
Helena Carvalho, Virginia Helena Machado, Ana Barroso and Virgílio Cruz-Machado, UNIDEMI, Dep. de Engenharia Mecânica e Industrial, Faculdade de Ciências e Tecnologia, FCT, Universidade Nova de Lisboa, Caparica, Portugal

ID 114  Analysis of a Customer Relationship Management Tool in a Shipping Company
Teresa Pereira, Institute of Engineering of Porto of Polytechnic Institute of Porto, ISEP/P.Porto, Research Center of Mechanical Engineering (CIDEM), Rua Dr. António Bernardino de Almeida, 431, 4200-072, Porto, Portugal.
Joana Fróis, Polytechnic Institute of Porto, APNOR/P.Porto, Rua Dr. Roberto Frias. 712, 4200-465 Porto, Portugal
Fernanda A. Ferreira, School of Hospitality and Tourism of Polytechnic Institute of Porto, CITH/P.Porto, Applied Management Research Unit (UNIAG), Rua D. Sancho I, Vila do Conde, Portugal

ID 174  Impact of Order Picking Regions on the Performance of Routing Picking Policies
Hala Ahmed, Raafat Elshaer and Mahassen Khater, Industrial Engineering Department, Faculty of Engineering, Zagazig University, Zagazig, Egypt
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<td>Integrated Scheduling and Transportation System Incorporating Energy Consumption: Models Development In the Case of Perishable Goods</td>
<td>Luki Trihardani and Oki Anita Candra Dewi, Logistics Engineering Department, Universitas Internasional Semen Indonesia, East Java, Indonesia</td>
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<td>Implementing Fuzzy Rank Function Model for a New Supply Chain Risk Management</td>
<td>Mojtaba Qolipour, and Mostafa Rezaei, Industrial Engineering Department, Yazd University, Yazd, Iran, Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Iran, Hengame Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran, Mehdi Soltani, Faculty of Industrial and Mechanical Engineering, Islamic Azad University, Qazvin Branch, Qazvin, Iran</td>
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<td>Re-Formulating the Theoretical Principles of Lean Manufacturing in the Fourth Industrial Revolution: A Grounded Theory Approach</td>
<td>Eldon Caldwell, University of Costa Rica, San José, Costa Rica</td>
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<td>The Effect of Service Quality on Student's Satisfaction at Technical Education and Vocational Training</td>
<td>Rahmat Nurcahyo, Fauzia Rizkiana Aji, Djoko Sihono Gabriel and Muhammad Habiburrahman, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, Indonesia</td>
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<td>Some Obstacles that Affect the TQM Implementation in Bangladeshi RMG Sector: An Empirical Study</td>
<td>Subrata Talapatra, Industrial Engineering and Management Department, Khulna University of Engineering &amp; Technology, Khulna, Bangladesh, Md. Kutub Uddin, Mechanical Engineering Department, Khulna University of Engineering &amp; Technology, Khulna, Bangladesh</td>
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<td>Analysis Implementation Effectiveness of ISO / IEC 17025 on Testing Laboratory</td>
<td>Irma Permata Sari, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, Indonesia</td>
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<td>Defect Control via Forecasting of Processes' Deviation as JIDOKA Methodology</td>
<td>Ahmed M. Abed and Adel Abd Elmo'z Ibrahim, Department of Industrial Engineering, Zagazig University, Egypt</td>
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<td>Product Quality Analysis RS CD 10 SY-C9 Using Multivariate Statistical Process Control</td>
<td>Yuyun Hidayat, Titi Purwandari and Sofyan Abdurrahman, Departement 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, Johor, Malaysia</td>
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<td>Improvement for Printing Process Using Integration of FMEA-TRIZ</td>
<td>Sherva Rafsanjani, Moses Laksono Singgih and Yudha Prasetyawan, Industrial Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
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<td>Analysis of Key Factors for Airport Service Quality: A Case Study of Three Regional Airports in Thailand</td>
<td>Sarocha Kratudnak, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand, Korrakot Yaibuathet Tippayawong, Excellence Center in Logistics and Supply Chain Management, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand</td>
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<td>Towards Assessment of Innovation in SMEs with Decision Analysis Concepts</td>
<td>Mohmood Al Kindi and Sami Al Khuras, Sultan Qaboos University Muscat, Oman</td>
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<td>Selection of Best Professional Institute in India: The Student Perspective</td>
<td>Manish Kumar, Cherian Samuel, Vinayoth Mishra and Anand Jaiswal, Department of Mechanical Engineering, IIT (BHU) Varanasi, India</td>
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<td>On Quantitative Analysis of the Positive and Negative Feelings in the Menu Selection Behavior of the Consumers</td>
<td>Sunhee Kwon, Graduate School of Information and Communication, Meiji University, Tokyo, Japan, Takaaki Kawanaka, Institute for Innovation in International Engineering Education, Graduate School of Engineering, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo, Japan, Hiroshi Yamashita, Department of Commerce, Meiji University, Kanda-Surugadai, Chiyoda-ku, Tokyo, Japan</td>
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<td>Case Study - Using Multicriteria Analysis Methods in Project Selection</td>
<td>Houda TAHR and Omar Drissi Kaitouni, IMOSYS, Engineering, management and optimization of systems, Mohammadia School of Engineers, Avenue Ibn sina B.P. 765 Agdal Rabat, Morocco</td>
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<td>Design of Multiatribute EWMA Chart</td>
<td>Mohammad Shamsuzzaman and Salah Haridy, Sustainable Engineering Asset Management (SEAM) Research Group, Department of Industrial Engineering and Engineering Management, University of Sharjah, Linda Zhang, IESEG School of Management (LEM-CNRS), Lille-Paris, France</td>
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**PARALLEL SESSIONS**

**March 6-8, 2018**

**11:30 – 1:00, WEDNESDAY**

**Business Management**

**Ballroom 3**

Session Chair: Ali Massaeli, National Iranian Gas Company, Tehran, Iran

**ID 503**  
Relationship between Risk Factors and Risk Information Sharing at SME’s In Bandung  
Sri Widiyanesti, School of Economic and Business, Telkom University, Bandung, Indonesia  
Yudi Fernando, Faculty of Industrial Management, Universiti Malaysia Pahang, Pahang, Malaysia  
Prof Azlan Amran, Graduate School of Business, Universiti Sains Malaysia, Penang, Malaysia

**ID 506**  
The Influence of Culture, Job Satisfaction and Motivation on the Performance Lecturer / Employees  
Linda Theresia, A H Lahuddin and Gadih Ranti, Industrial Engineering Department, Institut Teknologi Indonesia  
Ramon Bangun, Faculty of Administrative Science, Universitas Indonesia

**ID 509**  
Business Strategy with Uncertainty and Performance  
Ary Kurniati, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia  
Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Kampus Baru UI Depok, Depok, Indonesia

**ID 510**  
Confucianism Culture Study in Improving the Performance of Employees  
Iman Sudirman, Budhi Priharti, Indriyati Sunaryo, Industrial Engineering Study Program, Bandung Institute of Technology, Bandung, Indonesia  
Nyoto, Management Study Program, Padjajaran University, Bandung, Indonesia  
Aditya Parama Setiabodhi, Engineering Management Study Program, Bandung Institute of Technology, Bandung, Indonesia

**ID 558**  
The Effect of Dynamic, Innovation and Alliances Capability on Sustainable Competitive Advantage in Digital Disruptive for Incumbent Telecommunication Firm  
Leonardus W. Wasono Mihardjo and Asnan Furinto, Doctor of Research in Management, Graduated Program, Bina Nusantara University, West Jakarta, Indonesia  
Riza A. N. Rukmana, Industrial Engineering Department, Telkom University, Bandung, Indonesia

**ID 574**  
Applying Social Cognitive Theory to HRM Practices, HR Roles, and Firm Performance  
Ivana Chandra Voo and Khairiah Soehod, Faculty of Management, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia  
Choi Sang Long, Faculty of Business, Raffles University Iskandar, Malaysia

**ID 656**  
Project Management versus Operations Management: A Comparative Study  
Ahmed Osman and Nasr Al Hinai, Mechanical and Industrial Engineering Department, Sultan Qaboos University, Muscat, Oman

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**1:00 – 2:30 pm – Wednesday Lunch Keynote and Networking**

– Grand Ballroom

**Professor Jose Arturo Garza-Reyes**  
Professor of Operations Management  
Head of the Centre for Supply Chain Improvement  
College of Business, Law and Social Sciences  
Derby Management School  
University of Derby, Derby, United Kingdom (UK)

(Lunch Buffet Provided)

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**Session – Wednesday (March 7): 2:30 – 4:00 pm**

**2:30 – 4:00, WEDNESDAY**

**Global Engineering Education VII**

Kapla

Session Chair: Dr. Abdelaziz Berrado, The Ecole Mohammadia d’Ingénieurs (EMI), Rabat, Morocco

2:30 – 3:00 (Wednesday)

**Prof. S. P. Mukherjee**  
Ex-Centenary Professor of Statistics  
Calcutta University  
Kolkata, India

3:00 – 3:30 (Wednesday)

**Dr. Eldon Caldwell**  
Director, Industrial Engineering Department  
Engineering School  
University of Costa Rica  
San Jose, Costa Rica

*Challenges of Operations Engineering Education on a Industrial Clustering Environment in Central America*
### 2:30 – 4:00, WEDNESDAY  
**Industry Solutions VI: Panel Session – Women in Industry & Academia**

**Rubix**  
**Session Chair:** Dr. Ilham Kissani, Al Akhawayn University, Ifrane, Morocco  
**Panelists**

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<th>Dr. Ilham Kissani</th>
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<td>Associate Professor</td>
<td>Assistant Professor of Engineering &amp; Management Science</td>
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<td>Dean – College of Petroleum Engineering and Technology</td>
<td>School of Science &amp; Engineering</td>
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<td>Sudan University of Science and Technology, Khartoum, Sudan</td>
<td>Al Akhawayn University</td>
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<th>Dr. Noha Mostafa</th>
<th>Dr. Ho Hwi Chie, M.Sc.</th>
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<td>Assistant Professor</td>
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<td>Department of Industrial Engineering</td>
<td>Dean, Binus Aso School of Engineering</td>
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<td>Zagazig University, Egypt</td>
<td>Bina Nusantara University (Binus)</td>
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<td>Tangerang, Banten, Indonesia</td>
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### 2:30 – 4:00, WEDNESDAY  
**Engineering Education**

**Dao**  
**Session Chair:** Abdelhakim Abdelhadi, Prince Sultan University, Riyadh, Saudi Arabia  
**Topics**

- **ID 094** Factors Affecting Students’ Evaluations of Teaching at College Level  
  Abdelhakim Abdelhadi, Engineering Management Department, Prince Sultan University, Riyadh, Saudi Arabia  

- **ID 108** Safe Human-Machine Centered Design of an Assembly Station in a Learning Factory Environment  
  Rafael Rojas, Erwin Rauch, Patrick Dallasega and Dominik T. Matt, Industrial Automation and Engineering (IEA), Faculty of Science and Technology, Free University of Bolzano, Bolzano, Italy  

- **ID 119** Understanding Self-Responsibility in Employability Competencies Development as the Key for Engineering Graduates to survive in the labour market  
  Daudi Lazarus, Department of Electrical and Information Engineering, Pontianak State Polytechnic, Indonesia  
  Timothy Ferris, Cranfield University, UK  

- **ID 120** Self-Responsibility in Employability Competencies Development: Perceptions from Australian Engineering Student and Alumni  
  Daudi Lazarus, Department of Electrical and Information Engineering, Pontianak State Polytechnic, Indonesia  

- **ID 214** Engineering Accreditation: Assessing and Documenting Students Competencies in their Respected Disciplines  
  Albertus Retnanto, Petroleum Engineering Texas A&M University at Qatar, Doha, Qatar  
  Hamid R. Parsaei, Mechanical Engineering, Texas A&M University at Qatar, Doha, Qatar  
  Boback Parsaei, Civil and Environmental Engineering, Texas A&M University, College Station, Texas USA  

- **ID 336** Gender Leadership and Inequality Study on Higher Education in Indonesia  
  RR. Iswachyu Dhaniarti, M.H., Vice Chancellor/Rector, Universitas Narotama, Jl. Arief Rachman Hakim 51, Surabaya, Indonesia  
  Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom  

### 2:30 – 4:00, WEDNESDAY  
**Logistics Management**

**Jovo**  
**Session Chair:** Shao Hung Goh, School of Business, Singapore University of Social Sciences, Singapore  
**Topics**

- **ID 315** Criteria Affecting the Selection of Logistics Service Provider for Retail Small and Medium Enterprise in Thailand  
  Chawanluck Surijayaroen, Department of Industrial Engineering, Chiang Mai University, Chiang Mai, Thailand  
  Apichat Sopadang, Excellence Center in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai, Thailand  

- **ID 345** Inbound Logistics in Sub-Saharan Africa: A Case Study on Current Practices and Challenges  
  Theint Moe Hnin and Shao Hung Goh, School of Business, Singapore University of Social Sciences, Singapore  

- **ID 420** The Prediction of Needs of Humanitarian Aids Logistics for Merapi Eruption Victims in Sleman Yogyakarta  
  Naniek Utami Handayani, Dyah Ika Rinawati, Diana Puspita Sari and Projo Mukti Rifa'I, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia
ID 446  Designing Training and Development Program for Competence Global Supply Chain Managers: A Depth Structured Interview  
Puspita Wulansari, School of Economic and Business, Telkom University, Bandung, Indonesia and Graduate School of Business, Universiti Sains Malaysia, Penang Malaysia  
Yudi Fernando, Faculty of Industrial Management, Universiti Malaysia Pahang, Pahang, Malaysia

ID 704  Use of Social Media for CSR and Sustainability: A Systematic Review of Literature  
Amrit Perish and Shekar Babu, Department of Management, Amrita Vishwa Vidyapeetham University, Bangalore, India

ID 512  Model Development of Multi depot SDVPTW  
Ali Alhureibi, Amelia Santoso and Dina Natalia Prayogo, Industrial Engineering, Engineering Faculty, Universitas Surabaya, Surabaya, Indonesia

ID 344  A Model for Tuna-Fishery Policy Analysis: Combining System Dynamics and Game Theory Approach  
E. Widodo, Budianto, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember, ITS, Surabaya, Indonesia

2:30 – 4:00, WEDNESDAY  Manufacturing and Design  Ludo  
Session Chair: Vina Sari Yosephine, Korea Advanced Institute of Science and Technology, Daegjeon, South Korea

ID 081  Reinforcement Learning Based Buffer Allocation Problem on Complex Production Lines  
Vina Sari Yosephine and Young Jae Jang, Department of Industrial and Systems Engineering, Korea Advanced Institute of Science and Technology, Daegjeon 34141, South Korea

ID 117  Prediction Model of Tensile Strength Property in Friction Stir Welding Using Artificial Neural Network (ANNs)  
Hwi Chie Ho, Armansyah, Gatot Suharjanto, Industrial Engineering, Faculty of Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia

ID 302  Scaling up Model for Developing Second-Generation (2G) Bioethanol by using Palm Empty Fruit Bunches Feedstock  
Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana, Jakarta, Indonesia  
Hermawan Thaheer, Computer Science Department, Universitas Pakuan, Bogor, Indonesia  
Rosalandro Eddy Nugroho, Master of Management, Universitas Mercu Buana, Jakarta, Indonesia

ID 330  Selection of Product Design Prominent Factors Using Analytic Hierarchy Process for Developing Countries  
Farhad Ahmed and A.R.M. Harunur Rashid, Dept. of Mechanical and Chemical Engineering, Islamic University of Technology, Gazipur, Bangladesh

ID 051  Performance Evaluation and Organization of New Product in Indonesia Manufacturing Firms  
Evo Sampetua Hariandja, Department of Management, Business School Universitas Pelita Harapan Tangerang, Indonesia

ID 596  Measurement of Innovation Performance in Selected industries in Sultanate of Oman  
Ahm Shamsuzzoha, Mahmood Al-Kindi and Emad Summad, Dept. of Mechanical & Industrial Engineering, Sultan Qaboos University, Muscat, Oman

2:30 – 4:00, WEDNESDAY  Modeling and Simulation  Shogi  
Session Chair: Mansur Maturidi Arief, University of Michigan Ann Arbor, USA

ID 016  Input Uncertainty Quantification on Supply Chain Simulation Optimization using Bayesian View  
Mansur Maturidi Arief, University of Michigan Ann Arbor, USA

ID 122  Simulation to Improve the Performance of a Real-World Warehouse in India  
AswinChandran, Deepak Hari, Gautham Krishnan and Joice Jacob, Department of, Mechanical Engineering, Sree Chitra Thirunal College of Engineering, Trivandrum, Kerala, India

ID 160  Impact of the Truck Wave Region to the Aerodynamics of Saloon Car  
Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom

ID 164  Optimisation Nozzle Design for Mixing Fluid using Computational Fluid Dynamics  
Thomas Chenery, Mechanical Engineering, University of Derby, Derby, United Kingdom  
Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom

ID 165  A Conceptual Framework for Combining Artificial Neural Networks with Computational Aeroacoustics for Design Development  
Claire McKee, Dani Harmanto and Amanda Whitbrook, School of Engineering and Technology, University of Derby, Kedleston Road, Derby, UK

ID 611  Development of Green Supply Chain Management in Food Industry Supply Chain Management  
A. Aldeehani, S. Sulaiman and F.A. Aziz, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering, Universiti Putra Malaysia, UPM Serdang Selangor, Malaysia  
F. Mustapha, Department of Aerospace, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor Darul Ehsan, 43400 Malaysia 
2:30 – 4:00, WEDNESDAY  Business Management  Ballroom 3

Session Chair: Norliyana Zakaria, University of Technology Malaysia

**ID 293**  Other Income from Building a Franchise System: Insight from the Franchisor
Dede Suleman, Ahmad Hidayat Sutawidjaya and Indra Kurniadi, Pascasarjana Universitas Mercubuana, Universitas Mercubuana, Jakarta, Indonesia

**ID 575**  Does Organizational Justice Influence Organizational Citizenship Behavior among Engineers? A Conceptual Paper
Jen Ling Gan and Halimah M. Yusof, Faculty of Management, Universiti Teknologi Malaysia, UTM Skudai, Johor, Malaysia

**ID 578**  HRM Practices and Firm Performance: The Mediation of HR Roles
Ivana Chandra Voo and Khairiah Soehod, Faculty of Management, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia
Choi Sang Long, Faculty of Business, Raffles University Iskandar, Malaysia

**ID 584**  Leadership Style and Employee Turnover Intention
Geeta Ann Sulamuthu and Halimah Mohd Yusof, Faculty of Management, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

**ID 588**  The Impact of Stress: Systematic Review
Norliyana Zakaria and Halimah Mohd Yusof, Faculty of Management, University of Technology Malaysia, Johor Bahru, Malaysia

**ID 589**  The Relationship between Big Five Personality towards Career Success among Employees Case Studies
Norliyana Zakaria and Halimah Mohd Yusof, Faculty of Management, University of Technology Malaysia, Johor Bahru, Malaysia

**ID 456**  Innovation Network Analysis to Support Innovation Capabilities of Kakao, Sengon and Porang (KaSePo) Cluster in Madiun Regency
Yudha Adi Kusuma and Bambang Syairudin, Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

4:00 – 4:30 pm – Break

Session – Wednesday (March 7): 4:30 – 6:00 pm

4:30 – 6:00, WEDNESDAY  Global Engineering Education VIII  Kapla

Session Chair: S. C. Naik, National Institute of Technology, Rourkela, Odisha, India

4:30 – 5:00 (Wednesday)

**Dr. S. C. Naik**
Professor, Former Head of Chem Engg and Dean
National Institute of Technology, Rourkela, Odisha, India
Past President, The Institution of Engineers
Past Vice-President, The Federation of Engineering Institutions in South & Central Asia

*Vision 2025-Global Engineering Education*

5:00 – 5:30 (Wednesday)

**Dr. Khristian Edi Nugroho**
Binus Aso School of Engineering
Bina Nusantara University (Binus)
Tangerang, Banten
Indonesia

5:30 – 6:00 (Wednesday)

**Dr. Mohammad T. Khasawneh, Ph.D.**
Professor & Chair, Systems Science and Industrial Engineering
Associate Director, Watson Institute for Systems Excellence
Director, Healthcare Systems Engineering Center
Graduate Program Director, Executive Master of Science in Health Systems
Graduate Program Director, Industrial and Systems Engineering
Thomas J. Watson School of Engineering and Applied Science
State University of New York at Binghamton
Binghamton, New York 13902, USA
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| 555 | Cost Estimation Model of Structural Steel for Super Structure of Wellhead Platform in Oil and Gas Industry | Ahmad Ammar Luqman Abdullah, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia  
Syed Ahmad Helmi, Center for Engineering Education, Universiti Teknologi Malaysia, 81310, Johor Bahru, Johor, Malaysia  
Muhammad Hisjam Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Surakarta, Indonesia |
| 570 | Measuring Job Strain Index for Batik's Workers                                             | Dian Palupi Restuputri, Industrial Engineering Department, University of Muhammadiyah Malang, Jln Raya Tlogomas, Malang |
| 571 | Human Risk Factors and Road Accident Causation among Motorcyclists in Malaysia: A Review Article | Siti Hawa Hanith and Norashikin Mahmud, Universiti Teknologi Malaysia |
| 572 | Work-Related Musculoskeletal Risk Assessment among Structural Iron Workers in a Steel Company in the Philippines | Pauline Irish D. Jalac, John Paul E. Sison and John Michael Y. Fedilo, Department of Industrial Engineering, Technological Institute of the Philippines, Quezon City, Philippines |
| 595 | Anthropometry of Saudi Arabian male workers                                               | Abdalla Alrashdan, Mohamed Albassam, Abdullah Alkholani, and Meshal Alkadi, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia |
| 703 | Corporate Social Responsibility (CSR) Disclosures using Social Media in India              | Ms. Anjana, Mr. Arun V, Mr. Manjunath Eswar and Shekar Babu, Dept. of Management, Amrita Vishwa Vidyapeetham University, Bangalore, India |
| 599 | Awetism: A User Ergonomic Learning Management System Intended for Autism Diagnosed Students in the Philippines | Ryan Christopher M. Malicdem, Diana M. Jumadiao, Jevi Jee S. Umbac, Angel Joy J. Quizon, Leonard Jessie P. Repollo and Yoshiki B. Kurata, Department of Industrial Engineering, Technological Institute of the Philippines, Quezon City, Philippines |
| 015 | Waste Cooking Oil as an Energy Source                                                      | John Y. Pumwa, Papua New Guinea University of Technology Papua New Guinea |
| 018 | Environmental Impact Assessment for Setting up a Biogas Plant                              | M. M. Manyuchi, C. Mbohwa and E. Muzenda, BioEnergy and Environmental Technology Centre, University of Johannesburg, South Africa |
| 019 | Linear and Exponential Kinetic Modelling for Biogas Production in Municipal Waste          | M. M. Manyuchi, C. Mbohwa and E. Muzenda, BioEnergy and Environmental Technology Centre, University of Johannesburg, South Africa |
| 020 | Techno-economic Feasibility for Recovering Biogas in a Bio augmented Municipal Sewage Plant | M. M. Manyuchi, C. Mbohwa and E. Muzenda, BioEnergy and Environmental Technology Centre, University of Johannesburg, South Africa |
| 103 | Investigation on the Effect of Types of Nanoparticles and Temperature on Nanoparticles-Foam Stability | Tan Bee Chea, Nur Asyraf Md Akhir and Ahmad Kamal Idris, Department of Petroleum Engineering, Universiti Teknologi Petronas, Seri Iskandar, Perak, Malaysia |
| 048 | The use of artificial intelligence techniques for the Diagnosis of periodontal disease by clinical indices | Farzad Firouzi Jahantigh and Samin Arbabi, Industrial Engineering Department Sistan and Baluchestan University Zahedan, Iran |
| 107 | Life Cycle Impacts for Electricity Generation from Wind Source                              | Md. Mizanur Rahman, Hasan Mohd Faizal, Aminuddin Saat and Mazlan Abdul Wahid, Department of Thermo Fluids, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia |
| 126 | Single Vendor-Single Buyer Integrated Inventory Model for Deteriorating Items Considering Carbon Emission | Yosef Daryanto and Hui-Ming Wee, Department of Industrial & System Engineering, Chung Yuan Christian University, Chungli, Taiwan |
| 406 | Modeling of Inventory-Transportation Problem Considering Carbon Cap                         | Thina Ardliana, Shipbuilding Institute of Polytechnic Surabaya, Doctoral Student at Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia  
I Nyoman Pujawan and Nurhadi Siswanto, Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia |
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<td>566</td>
<td>Model of Continuous Review System with Backorder Case for Inventory Planning and Control: A Methanol Industry Case Application</td>
<td>Sri Indrawati, Vembri Noor Hella and Kukuh Andhityara, Industrial Engineering Dept., Faculty of Industrial Technology, Universitas Islam Indonesia</td>
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<td>Performance of class aggregation in a multiple class inventory rationing problem</td>
<td>Sugotum Ghosh, Singapore University of Social Sciences, Singapore</td>
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<td>Incorporating repeat purchasing in Innovation Diffusion Model Using Stochastic Differential Equations</td>
<td>Kuldeep Chaudhary, Kalyani Kumar and Sunita Mehta, Dept. of Applied Mathematics, Amity Institute of Applied Sciences, Amity Univ., Noida, India</td>
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<td>Bullwhip Effect Measures in a Non-Stationary Seasonal Supply Chain</td>
<td>Narayan Kumar and Cherian Samuel, Department of Mechanical Engineering, IIT (BHU) Varanasi, India</td>
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### 4:30 – 6:00, WEDNESDAY  
**Manufacturing and Design**  
**Ludo**  
Session Chair: Tawanda Mushiri, University of Zimbabwe, Mt Pleasant, Harare, Zimbabwe

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| 335 | Portable Inflated Solar Power Cold Storage House Technology as a supporting facility to increase the production and marketing of fishery fishermen | M. Ikhsan Setiawan, Civil Engineering Department, Universitas Narotama, Surabaya, Indonesia  
Reswanda T. Ade, School of Management, Universitas Narotama, Surabaya, Indonesia  
Dani Harmanindo, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom |
| 415 | Influence of Critical Plasma Spray Parameter on Characteristics of Nanostructured Yttria Stabilized Zirconia Coatings | Venkateshwarlu Bolleddu, Department of Manufacturing, School of Mechanical Engineering, VIT University, Vellore, India |
| 464 | Simultaneous consideration of assemblability and disassemblability for fastening method selection | M.W. Geda and C.K. Kwong, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong, CHINA |
| 517 | A FEA-based feasibility study on the replacement of student wooden desks and chairs with a plastic arm chair. | Rumbidzai Prosper Jera, University of Zimbabwe, Department of Mechanical Engineering, Mount Pleasant, Harare, Zimbabwe  
Tawanda Mushiri, University of Johannesburg, Department of Mechanical Engineering Science, Faculty of Engineering and the Built Environment, Post Office Box APK 524 Auckland Park, Johannesburg, South Africa |
| 510 | Finite element analysis on Nitric Acid Compressor Expansion (NACE) turbine | Rutendo Sandra Leman and Tawanda Mushiri, Department of Mechanical Engineering, University of Zimbabwe, Mt Pleasant, Harare, Zimbabwe  
Miton Masukume, National University of Science and Technology, Ascot, Bulawayo, Zimbabwe |
| 519 | Design for manufacture and assembly of a paper cup making machine in a developing nation | Kudakwashe N. Masengere and Tawanda Mushiri, Department of Mechanical Engineering, University of Zimbabwe, Mt Pleasant, Harare, Zimbabwe |

### 4:30 – 6:00, WEDNESDAY  
**Modeling and Simulation**  
**Shogi**  
Session Chair: Abdul Talib Bon, University Tun Hussein Onn Malaysia, Johor, Malaysia

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| 322 | The dynamic of rice production in Kalimantan Selatan: A policies study | Arief RMI Akbar, Alan Dwi Wibowo and Alia Rahmi Agro-industrial Technology Department, Faculty of Agriculture, Universitas Lambung Mangkurat, Jl A Yani KM 36, Banjarbaru, Kalimantan Selatan, Indonesia  
Sigit Prabawa, Food Science and Technology Dept., Faculty of Agriculture, Universitas Sebelas Maret, Jl Ir. Sutami No 36A, Surakarta, Indonesia |
| 402 | Modeling and Simulation of Queuing Systems Using Stochastic Petri net and Arena Software: A Case Study | Husam Kaid and Abdulmajeed Dabwan, College of Engineering, Industrial Engineering Department, King Saud University, Riyadh, Saudi Arabia  
Abdulrahman Al-Ahmari, FARCAMT Chair, Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia |
| 410 | The Analysis of Manufacturing System Utilization by Using Queuing and Taylor Theories | Muhammad Marsudi, Department of Industrial Engineering, Faculty of Engineering, Universitas, Islam Kalimantan Muhammad Arsyad Al-Banjari, Banjarmasin 70123, Indonesia |
4:30 – 6:00, WEDNESDAY  
Business Management  
Ballroom 3

Session Chair: Luis A. Avila-Lopez, Universidad Autónoma de Baja California, Calzada Universidad, Mexico

ID 061  The Challenges of Cyclic Steam Stimulation (CSS) to Enhanced Oil Recovery (EOR) in Sudanese Oil Field  
Husham A. Elbaloula and Tagwa A. Musa, Sudan University of Science and Technology, Petro-Energy-E&P, Khartoum, Sudan

ID 274  Working with Millennial Generation: How to Manage Team Engagement to Achieve Excellent Service (Case Study: Tanah Abang Main Branch, Private Bank ABC)  
Agung Terminanto, Jurusan Teknik Industri, Fakultas Teknik, Universitas Pancasila, Jakarta, Indonesia  
Ahmad Badawi and Shinta Wasis, Department of Information Technology, Universitas Merchantiana, Jakarta, Indonesia

ID 292  Comparing the Business Process in Creative Industry at Bandung  
Iston Dwija Utama and Chyintia Ika Ratnapuri, Creativepreneur Department, Bina Nusantara Bandung, School of Creative and Technology, Bandung, West Java, Indonesia

ID 585  Leadership Style and Employee Engagement  
Geeta Ann Sulamuthu and Halimah Mohd Yusof, Faculty of Management, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

ID 333  Distribution Network Design for an Oil Blending Company  
Sayed M. Irfan, Ex-Faculty, Department of Industrial & Manufacturing Engineering, NED University of Engineering & Technology, Karachi, Pakistan  
Sharifuddin Ahmed Khan, Industrial Engineering and Engineering Management Department, University of Sharjah, Sharjah, United Arab Emirates  
Nadjib Brahimi, Department of Supply Chain Management, Rennes School of Business, Rennes, France

ID 341  Calibration System for Costs Reduction: Case Study in the Maquiladora Industry  
Karina C. Arredondo-Soto, Maria del Socorro Cruz-Castillo, Teresa Carrillo-Gutierrez, Marcela Solís-Quinéros and Luis A. Avila-Lopez, Universidad Autónoma de Baja California, Calzada Universidad, Parque Industrial Internacional, Tijuana, B.C., C.P., Mexico

ID 404  Exploring, Monitoring of Ecological Conservation Practice for Awareness and Sustainability in Aba, Nigeria  
Okafor Jude Aniemeka and Charles Mbohwa, Department of Operations Management, University of Johannesburg, South Africa  
Walter Musakwa, Department of Town and Regional Planning, University of Johannesburg, South Africa  
Precious Toby Nwachukwu, South Africa

7:00 pm – 10:00 pm (Wednesday)

CONFERENCE AWARD DINNER
Fellow Induction Ceremony
Grand Ballroom

March 8, 2018 (Thursday)

Session: 8:00 – 9:30, THURSDAY  
Multi-Disciplinary  
Kapla

Session Chair: Fernanda A. Ferreira, Polytechnic Institute of Porto, School of Hospitality and Tourism, Portugal

ID 618  Using Importance-Performance Analysis for Water and Sewerage Companies Services  
Abrari Salleh, Universiti Teknologi Malaysia, Suruhanjaya Perkhidmatan Air Negara Malaysia  
Sha’n Mohd Yusof and Norazli Othman, Razak School of UTIM in Engineering and Advanced Technology, Universiti Teknologi Malaysia

ID 628  The Integrated Academic Information System Support for Education 3.0 in Higher Education Institution: Industry’s Perspective  
Abdul Talib Bon, Department of Production and Operations Management, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor 86400, Malaysia  
Hadi Prasetyo Utomo and Mokhamad Hendayun, Dept. of Informatics, Faculty of Engineering, University of Langlangbuana, Bandung, Indonesia

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ID 637  Connectivity of Medium Airports in Thailand
Charukit Chaiwan, Graduate Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Korrakot Yaiubuath Tippayawong, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

ID 640  Solution of Differential Equations on Economic Growth of Solow Model
Alit Kartiwa, Sukono, Betty Subartini, Dept. of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Johor, Malaysia

ID 112  Privatization and Productive Efficiency in an International Stackelberg Mixed Duopoly
Fernanda A. Ferreira and Flávio Ferreira, Polytechnic Institute of Porto, School of Hospitality and Tourism, Portugal

ID 360  Risk Assessment at Heritage Sites: A Case Study of Tripoli Old City, Libya
Fatma Elaradi, Engineering Management Department, University of Tripoli, Tripoli, Libya
Saber Kh. Elmabrouk, Faculty of Engineering, University of Tripoli, Tripoli, Libya

ID 367  Calculation of EUR form Oil and Water Production Data
Saber Kh. Elmabrouk, Faculty of Engineering, University of Tripoli, Tripoli, Libya
Walid Mohamed Mahmud, Petroleum Engineering Department, Tripoli University, Tripoli-Libya
Hassan M. Sbarga, Libyan Petroleum Institute (L.P.I), Tripoli-Libya

8:00 – 9:30, THURSDAY  Entrepreneurship and Innovation  Rubix
Session Chair: Jose Arturo Garza-Reyes, University of Derby, Derby, UK

ID 046  Innovation and Growth in Family-Owned Mexican SMEs
Gonzalo Maldonado-Guzmán and Sandra Yesenia Pinzón-Castro Centro de Ciencias Económicas y Administrativas Universidad Autónoma de Aguascalientes Aguascalientes, Ags, México
Jose Arturo Garza-Reyes, University of Derby, Derby, UK
Juan Mejía-Trejo, Centro Universitario de Ciencias Económicas y Administrativas Universidad de Guadalajara Zapopan, Jalisco, México
Vikas Kumar, Bristol Business School University of the West of England Bristol, UK
Simon Peter Nadeem, University of Derby, Derby, UK

ID 055  Linking the Innovation Capability and Innovation Outcome: an Exploratory Investigation of the Hotel Industry
Evo Sampetua Hariandja, Department of Management, Business School, Universitas Pelita Harapan, Tangerang, Indonesia

ID 215  Business Strategy with Exploratory & Exploitative Innovation: The Analytics Role from SMAC Technology
Pratima Verma and P.R.K. Sharma, Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India
Vimal Kumar, Department of Management Studies, National Institute of Technology Bhopal, India

ID 329  Incubation Framework for a New Startup: A Case Study in Thailand
Phattaramon Klaasa, Technopreneurship and Innovation Management Program, Chulalongkorn University, Bangkok, Thailand.
Natcha Thawesaengkulthai, Department of Industrial Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok, Thailand

ID 421  Case Study on Strategic Development of Genuine Leather Bags using Canvas Business Model
Anita Maharani, Business Management Program, Management Department, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia
Irene Teresa Rebecca Hutabarat, BINA Entrepreneurship Center, Bina Nusantara University, Jakarta, Indonesia

ID 437  Community Based On Microfinance Service with Social Entrepreneur Concept Case Study: Parish of Robertus Cillilatan
Hendro Budiyanto and Sri Witjaksono W, Program Doctoral Managemen SDM, Fakultas Pascasarjana , Universitas Mercu Buana, Jakarta, Indonesia

8:00 – 9:30, THURSDAY  Technology Management and Systems Engineering  Dao
Session Chair: Maruf Hasan, University of New South Wales, Sydney, Australia

ID 431  Industrial Systems Engineering on Physical and Digital Banking: A Service Innovation and Ambidexterity Perspective
Khrisitan Edi Nugroho Soebandrijina, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 082  The Impact of Transactional Leadership on Employees' Performance through the mediation of job satisfaction in Malaysian’s Telecommunication sector
Abdul Talib Bin Bon, Department of Technology Management and Business, University Tun Hussein Onn Malaysia
Ali Orozi Sougui, "University de N'Djamena, Tchad

ID 470  Revolutionize Supply Chain Collaborations through Cloud Implementation
Dissa R. Chandra, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia
Jos van Hillegersberg, Faculty of Behavioral, Management and Social Sciences, Department of Industrial Engineering and Business Information Systems, University of Twente, Enschede, The Netherlands
ID 101  Open Innovation in Service Sector
Pimprabha Sirito and Maruf Hasan, School of Mechanical and Manufacturing Engineering, The University of New South Wales, Sydney, Australia

ID 465  Performance Improvement of Corporate Travel Agent Using Business Intelligence
Anggi Octaviani, Postgraduate student of Industrial Engineering Master Program, Universitas Mercu Buana Jakarta, Indonesia
Sawarni Hasibuan, Industrial Engineering Department, Universitas Mercu Buana Jakarta, Indonesia

ID 713  Building Student Satisfaction at Private Higher Education through Co-creation with Experience Value as Intervening Variables
Muji Gunarto, Department of Management, Universitas Bina Darma, Palembang, INDONESIA
Ratih Hurriyati, Disman and Lili Adi Wibowo, Department of Management, Universitas Pendidikan Indonesia, Bandung, 40154, INDONESIA
Diah Natalisa, Department of Management, Universitas Sriwijaya, Palembang, 30662, INDONESIA

8:00 – 9:30, THURSDAY  Transportation and Traffic  Jovo
Session Chair: Semira O. Mohammed, Qatar University, Doha, Qatar

ID 091  Attitudes towards Road Safety among Pre-drivers: The Case of Qatar
Semira O. Mohammed, Khalifa N. Al-Khalifa, Wael K.M. Alhajyaseen, Sajeda A. Abounada, Mohannad H. Ahmed, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar

ID 146  Review of Maritime Inventory Routing Problems
Stefanus Soegiharto, Teuku Yuri M. Zagloel and Sunaryo, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok 16424, Indonesia

ID 708  Assessment Project Management (PM) Roles Responsible for Abandonment of Construction Projects
Oluwaseun S. DOSUMU and Clinton, AIGBAVBOA, Sustainable Human Settlement and Construction Research Centre, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 698  Soft Innovation Strategy as a Booster in the Creative Industry (Survey at Bandung as Creative City in Indonesia)
Eriana Astuty, Business and Management Faculty, Universitas Widyatama, Jalan Cikutra 204 A, Bandung
Agus Rahayu, Disman and Lili Adi Wibowo, Doctoral Program of Management, Universitas Pendidikan Indonesia, Jalan Setiabudhi 229, Bandung

ID 027  Road Transport Problems in Morocco: Discernment and Classification
Kawtar Akoudad and Fouad Jawab, Sidi Mohamed Ben Abdellah University, Fez, Morocco

ID 034  Measuring the Impact of Freeway Infrastructure on the Accessibility of the City of Fez
Imane Moufjad and Fouad JAWAB, Sidi Mohamed Ben Abdellah University, Fez, Morocco
Ismail AIT FASKA, Morocco

8:00 – 9:30, THURSDAY  Artificial Intelligence  Ludo
Session Chair: Vijay Kumar Manupati, VIT University, Vellore, Tamil Nadu, India

ID 157  An Ant Colony Optimization Heuristic for Solving the Two-Dimensional Level Packing Problems
AzzaGaber, RaafatElsaer and MahassenKhater, Industrial Engineering Department, Faculty of Engineering, Zagazig University, Zagazig, Egypt

ID 171  Artificial Bee Colony Algorithm for Solving Shelf Space Allocation Model
Mohamed Grida, Raghda Roshdy, and Gamal Nawara, Department of Industrial Engineering, Zagazig University, Egypt

ID 548  Fault Feature Extraction And Diagnosis of Gear Transmission System Using EMD and Machine Learning Approach
D. Mallikarjuna Reddy, Department of Design and Automation, School of Mechanical Engineering, VIT University, Vellore, Tamilnadu, India

ID 063  Passive Isolation of Vibrations in Stone Cutting process
Ahmed Abu Hanieh and Ahmad Albalasie, Department of Mechanical and Mechatronics Engineering, Birzeit University, Palestine

ID 476  Design of Customer-driven Facility Management System for Universities
Grace Lorraine D. Intal, School of Information Technology, School of Industrial Engineering, Mapua University, Intramuros, Manila Philippines
Rex Aurelius C. Robiels and Alysia Geogia B. Ortega, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros Manila, Philippines

ID 522  A Cloud Based Architecture for Automatic Feature Recognition in Distributed Manufacturing Environment
Y Poornachandra Sekhar and Vijay Kumar Manupati, School of Mechanical Engineering, VIT University, Vellore, Tamil Nadu, India

8:00 – 9:30, THURSDAY  Modeling and Simulation  Shogi
Session Chair: Mukondeleli Grace Kanakana, Tshwane University of Technology, Pretoria, South Africa

ID 340  Integration Model of Maritime and Tourism in the Regional Areas to Enhancing Economy in the East Indonesia
Nyoman Sudapet and Agus Sukoco, Faculty of Economy, Universitas Narotama, Jl. Arief Rachman Hakim 51, Surabaya, Indonesia
Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom
ID 477  Unemployment Rate and Economic Growth Modelling With Generalized Spatial Three Stage Least Square (GS3SLS) in East Java  
Agus Muslim and Anik Djuraidah, Dept. of Statistics, Faculty of Mathematics and Natural Sciences, Bogor Agricultural University, Bogor, Indonesia

ID 484  Discrete Wavelet Packet Based Spectrum Sensing in Cognitive Radio using an Improved Adaptive Threshold  
Dibal Peter Yusuf, Elizabeth Onwuka, and Caroline, Alenoghenya, Telecommunications Engineering, Federal University of Technology Minna, Nigeria  
James Agajo, Computer Engineering Department, Federal University of Technology Minna, Nigeria

ID 563  Palm Oil Plantation Revitalization Model for the Agroindustry Development  
Juliza Hidayati, Departement of Industry Engineering, Faculty of Engineering, Universitas Sumatera Utara, Medan -Indonesia  
Sukardi, Ani Suryani, Anas Miftah Fauzi, Departement of Agriculture Industry Technology, Bogor Agricultural University, Bogor - Indonesia  
Sugharto, PT Pertamina (Persero) Jakarta -Indonesia

ID 594  Techno-Economic Modeling in Advanced Ceramic Materials Manufacturing using Spark Plasma Sintering Technology  
Mmakwena. C Tsipa and Mukondeleli G Kanakana, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

ID 552  An Optimization Model of Renewable Electricity Price and Construction of New Wind Power Plants for Kermanshah, Iran  
Mojtaba Qolipour, and Mostafa Rezaei, Industrial Engineering Department, Yazd University, Yazd, Iran  
Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Iran  
Hengame Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran  
Mehdi Soltani, Faculty of Industrial and Mechanical Engineering, Islamic Azad University, Qazvin Branch, Qazvin, Iran

ID 552  An Optimization Model of Renewable Electricity Price and Construction of New Wind Power Plants for Kermanshah, Iran  
Mojtaba Qolipour, and Mostafa Rezaei, Industrial Engineering Department, Yazd University, Yazd, Iran  
Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Iran  
Hengame Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran  
Mehdi Soltani, Faculty of Industrial and Mechanical Engineering, Islamic Azad University, Qazvin Branch, Qazvin, Iran

8:00 – 9:30, THURSDAY  
Project Management  
Ballroom 3  
Session Chair: Mohammad Shamsuzzaman, University of Sharjah, United Arab Emirates

ID 068  Improving Teamwork Quality to Succeed Software Development Project Using AHP (Case Study)  
Garda Satria, Devi Pratami and Ika Arum Puspita, Industrial Engineering Faculty, Telkom University, Jawa Barat, Indonesia

ID 147  Evaluating Maintenance Policies and Implementation Strategies to improve Building Functional Performance in Government Building: a case study in Jakarta, Indonesia  
Fahry Adam, Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, Indonesia

ID 150  Development of Quality Management System in the Process Implementation Maintenance Risk-Based in Government Building  
Khairina and Yusuf Latief , Department of Civil Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 155  Development of Building Information Modelling (BIM) Model to Enhance Services in Maintenance of Public Building  
Ulfa Fatmasari and Yusuf Latief, Construction Management of Civil Engineering Department, University of Indonesia, Depok, Jawa Barat, Indonesia

ID 159  Conceptual Framework to Develop E-Maintenance of Government Building Based on BIM  
Anita Handayaniinuputi and Yusuf Latief, PhD Student Department of Civil Engineering Faculty of Engineering Universitas Indonesia, Jakarta Indonesia

ID 163  The Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Cost Estimation of Concrete Precast Bridge Construction  
Remi Fitriadi Kurnia and Yusuf Latief, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

9:30 – 10:00 am – Thursday Morning Keynote I & II

9:30 – 10:15 am - Thursday Morning Keynote I

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

10:15 – 11:00 am - Thursday Morning Keynote II

Mr. Made Dana Tangkas  
Director at Toyota Indonesia  
Toyota Motor Manufacturing Indonesia  
President of Indonesian Automotive Institute  
Grand Ballroom (Buffet Lunch Provided)
**Session – Thursday (March 8): 11:30 am – 1:00 pm**

**11:30 – 1:00, THURSDAY**  
**Human Factors/Healthcare Systems**  
Kapla

**Session Chair:** Made Mariana, Bina Nusantara University, Jakarta, Indonesia

**ID 632**  
**Affective Aspect Analysis on Online Games from User’s Point of View Using Kansei Engineering**  
Heru Prastawa, Novie Susanto and Octavia Gultom, Industrial Engineering Department, Diponegoro University, Indonesia

**ID 633**  
**Fatigue and Human Errors Analysis in Petrochemical and Oil and Gas Plant’s Operation**  
Made Mariana, Taufik Roni Sahrnli and Talitha Gustiyana, Industrial Engineering Department, Binus Graduate Program, Bina Nusantara University, Jakarta, Indonesia

**ID 635**  
**Work Posture Analysis Based on Rapid Upper Limb Assessment (RULA) for Operator Cellroom Electrolyser**  
Mohammad Aminuddin, Taufik Roni Sahrnli, Nasuto Smaz and Jeffri Yudistira, Industrial Engineering Department, Binus Graduate Program, Bina Nusantara University, Jakarta, Indonesia

**ID 636**  
**Design Analysis of an Ergonomic Handgrip Facility for Transjakarta**  
Iccha Indriyani and Taufik Roni Sahrnli, Industrial Engineering Department, Binus Graduate Program, Bina Nusantara University, Jakarta, Indonesia

**ID 629**  
**Physician Engagement: A Key to Purchasing Excellence in Healthcare Supply Chains**  
Shijith Kumar P M, IE Business School, Madrid and Amrita School of Business, Bangalore, India
Maria Sabastin S., Aksharaa S and Alisha Mohan, Department of Management, Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka, India

**ID 630**  
**Efficiency of Radiology services: A Case study in Karnataka, India**  
Maria Sabastin S., Shekar Babu, and Robin Mathew John, Department of Management, Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka, India

**ID 639**  
**Reconfiguration of Resuscitation Process of a Public Hospital in Morocco**  
Ibn El Farouk Imane, Laboratoire d’Etudes et de Recherches en Sciences Economiques et de Management, LERSEM, Universite Chouaib Doukali Enq, El Jadida, Morocco
JAWAB Fouad, Laboratoire de recherches en Management International Techniques de Decisions et Logistique, (Midlog) Est Universite Sidi Mohamed Ben Abdellah, Fes/ Morocco
ARIF Jabir, Equipe de recherche Modélisation et optimisation des systèmes industriels et logistique, Ecole Nationale des Sciences Appliquées, Université Abdelmalek Essaâdi, Tétaoun, Morocco

**11:30 – 1:00, THURSDAY**  
**Entrepreneurship and Innovation**  
Rubix

**Session Chair:** Budhi Prihartono, Institut Teknologi Bandung, Indonesia

**ID 487**  
**Value Chain Analysis for Determining Innovation Priority in Batik Small Medium Industry**  
Afrin Fauzya Rizana, Amelia Kurniawati, T.M.A. Ari Samadhi, Iwan Irawan Wiratmadja and Indryati Sunaryo, Department of Industrial Engineering, Telkom University, Bandung, Indonesia

**ID 513**  
**Conceptual Model for Online Marketing Strategy to Success in the Survival Phase of Small Firms**  
Aditya Parama Setiabodhi, Hasrini Sari and Budhi Prihartono Department of Industrial Engineering and Engineering Management, Institut Teknologi Bandung, Bandung, Indonesia

**ID 593**  
**A Conceptual Framework of Risk Identification for Scale up Companies in Transition Period**  
Ahmad Nadali, Antonio Grilo and Aneesh Zutshi, UNIDEMI, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Lisbon, Portugal

**ID 688**  
**Effects of Inlet Flow Rate and Penstock’s Geometry on the Performance of Geographical Water Vortex Power Plant**  
Md. Mizanur Rahman, Tan Jian Hong and Fadzilta Mohd. Tamiri, Faculty of Engineering, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia

**ID 547**  
**A Review on the Reliability, Availability and Maintainability (RAM) Approaches in Conceptual Process Design**  
Narendra Kumar and P. C. Tewari, Department of Mechanical Engineering, National Institute of Technology, Kurukshetra, INDIA

**11:30 – 1:00, THURSDAY**  
**Energy**  
Dao

**Session Chair:** Rajesh N. Pote, TSSM’s Bhivarabai Sawant College of Engineering and Research, Pune, Maharashtra, India

**ID 450**  
**Establishing Wind Farm for Desalting Sea Water to Produce Hydrogen**  
Mostafa Rezaei and Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Yazd, Iran
Abbas Mahmoodabadi, Mehran University, Gilan, Iran

**ID 462**  
**The Influence of Nonlinear Loads on Optimal Operation Control of Electrical Distribution System**  
Agus Ulinuha, Department of Electrical Engineering, UniversitasMuhammadiyah Surakarta, Surakarta, Central Java, Indonesia
ID 483  Evaluation of Combustion Performance of Waste Tyre Pyrolysis Oil on Variable Compression Ratio, Single Cylinder Diesel Engine
Rajesh N. Pote, Dept. of Mechanical Engineering, TSSM's Bhivarabai Sawant College of Engineering and Research, Pune, Maharashtra, India
Rajendra K. Patil, Professor, Department of Mechanical Engineering, PES’s Modern College of Engineering, Pune, Maharashtra, India

ID 537  An Energy Audit to Minimize Waste Energy in Weaving AJL 2 Department PT. Daya Manunggal Textile
Naniek Utami Handayani, Hery Suliantoro, Achmad Ismail Marzuki and Anita Mustikasari, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 551  Feasibility of using a hybrid Photovoltaic-Wind Power Plant to Produce Hydrogen for Hendijan in the Southwest of Iran
Mojtaba Qolipour, and Mostafa Rezaeei, Industrial Engineering Department, Yazd University, Yazd, Iran
Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Iran
Hengame Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran
Mehdi Soltani, Faculty of Industrial and Mechanical Engineering, Islamic Azad University, Qazvin Branch, Qazvin, Iran

ID 554  Identifying the Effective Factors for Implementing Solar Water Heaters (SWH) for Yazd, Iran
Mojtaba Qolipour, Marjan Zarezade, and Mostafa Rezaeei, Industrial Engineering Department, Yazd University, Yazd, Iran
Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Iran
Hengame Hadian, Industrial Engineering Department, Nahavand University, Nahavand, Iran
Mehdi Soltani, Faculty of Industrial and Mechanical Engineering, Islamic Azad University, Qazvin Branch, Qazvin, Iran

11:30 – 1:00, THURSDAY  Transportation and Traffic
Session Chair:  Galal M. Abdella, Qatar University, Doha – Qatar

ID 170  Effect on the Hardness Paving Block by Adding Gomuti and Pumice Stone
Zainur Rochman, BEng (Hons) Civil Engineering, Universitas Narotama, Jalan Klampis Semalang, Surabaya, Indonesia
H. Sri Wiwoho Mudjanarko ST., MT, Pro-Vice Chancellor, Universitas Narotama, Jalan Klampis Semalang, Surabaya, Indonesia
Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom

ID 294  On the Locations of Electric Vehicle Charging Facilities using a Geographic Information System
Yohei Kakimoto and Hirotaka Takahashi, Department of Information & Management Systems Engineering, Nagaoka University of Technology, Niigata, Japan
Yoichi Shimakawa, Department of Computer Science & Technology, Salesian Polytechnic, Tokyo, Japan
Hiroyuki Goto, Department of Industrial & System Engineering, Hosei University, Tokyo, Japan

ID 338  Safety Culture Assessment in the Air Traffic Control Sector
Mansour A. Elkhweldi, General Manager, United Aviation Company, Mitiga International Airport, Tripoli, Libya
Saber Kh. Elmabrouk, Faculty of Engineering, University of Tripoli, Libya

ID 301  Conceptual Development of Land Value Capture (LVC) Model in Indonesia Infrastructure Project to Increase Project Benefits
Gunawan and Mohammed Ali Berawi, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, Indonesia

ID 475  Ultradiscrete Exponential Newell-Whitham Model: A Cellular-Automaton Model for Traffic flow
Kouyo Suzuki, Graduate School of Science and Engineering, Hosei University Graduate Schools, Kajino-chyou, Koganei-shi, Tokyo, Japan
Shin Isijima, Faculty of Science and Technology, Hosei University, Kajino—chyou, Koganei-shi, Tokyo, Japan

ID 480  The Airport Connectivity of Medium Airports in Thailand
Charukit Chaiwan and Korrakot Yaibuathet Tippayawong, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand

ID 572  Analyzing the Impact of Human Characteristics on the Comprehensibility of Road Traffic Signs
Nazha R. Ghabdan, Wael Alhajyaseen and Khalifa N. Al-Khalifa, Qatar Transportation & Traffic Safety Center (QTTSC), Qatar University, Doha, Qatar
Galal M. Abdella, Department of Mechanical and Industrial Engineering, Qatar University, Doha – Qatar

11:30 – 1:00, THURSDAY  Sustainability in Supply Chain, Enterprise Operations and Strategies
Session Chair:  Shao Hung Goh, Singapore University of Social Sciences, Singapore

ID 073  Carbon Emissions Policies Impact on Reverse Supply Chain Network
Bandar A. Alkhayyal, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

ID 133  Sustainable City Logistics through Shared Resource Concepts
Patrick Dallasega, Thomas Stecher, Erwin Rauch and Dominik T. Matt Industrial Automation and Engineering (IEA), Faculty of Science and Technology, Free University of Bolzano, Bolzano, Italy
ID 262  Milk Agro-Alimentary Chain Sustainable Development Strategy in the Conditions of the Ecuadorian Amazon Region
Neyfe Sablón Cossío, Career Industrial Engineering, North Technical University, Ibarra, Ecuador
Magdalena Beatriz Cárdenas Uribe, Manuel Lázaro Pérez Quintana, Luis Bravo Sánchez and Nelly Manjarrez Fuentes, Career Agro industrial Engineering, Amazon State University, Puyo, Ecuador

ID 321  Modeling for Sustainable Supply Chain Management Level and its Impact on Company's Performance
Jerry Loardi Loa and Eric Wibisono, Dept. of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 322  Sustainable Warehousing: A Case Study on Practices, Outcomes and Barriers in the Asia Pacific
Shao Hung Goh, School of Business, Singapore University of Social Sciences, Singapore

ID 323  Framework of improving the quality and lower the cost build for the real estate industry in Indonesia
Dani Harmanto, Research for Advanced Design and Simulation, University of Derby, Derby, United Kingdom
Agus Sukoco, Faculty of Economy, Universitas Narotama, Jl. Arief Rachman Hakim 51, Surabaya, Indonesia
M. Ikhsan Setiawan, Civil Engineering Department, Universitas Narotama, Surabaya, Indonesia
H. Sri Wiwoho Mudjanarko ST., M.T., Pro-Vice Chancellor, Universitas Narotama, Jl. Arief Rachman Hakim 51, Surabaya, Indonesia

ID 346  Sustainable Performance Measurement Using Sustainable Value Stream Mapping: A Case Study on One of Palm Oil Companies in Indonesia
Elisa Kusriani and Rangga Primadasa, Magister of Industrial Engineering and Industrial Engineering Dept., Indonesian Islamic University, Indonesia

ID 412  Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Safety Planning of Cable Stayed Bridge Project
Gilang Satrio and Yusuf Latief, MT., Department of Civil Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia

11:30 – 1:00, THURSDAY  Production Planning and Management  Ballroom 3  Session Chair: Dr. Affandi Zainal, Universiti Teknologi Malaysia

ID 087  Influence of Inventory and Work in Process Adjustment Time on Production Target Achievement of D Minus 1 Production Scenario: A Case Study of Hospital Bed Production
Susanto Sudiro, Magister Teknik Mesin Universitas Pancasila Jakarta, Indonesia
Sha’ni Mohd Yusof, Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia Kuala Lumpur, Malaysia
Revino, Post Graduate Program, Institut Sains dan Teknologi Nasional Jakarta, Indonesia

ID 184  The Role of Organization’s Continuous Commitment in Mediating Relationship between Strategic Evaluation and Organizational Performance in Libya’s Industrial Sector
Abdul Talib Bon and Ahmed Alghazali Mohammed Alghannah, Faculty of Technology Management and Business Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

ID 219  Agent-Based Conceptual Model of Coordination  Collaborative Production Planning in Divergent Two-Tier Supply Chain
Azizah Aleyati, Andi Cakravastia, Anas Ma’ruf and TMA Ari Samadhi, Department of Industrial Engineering and Management, Bandung Institute of Technology, Bandung, Indonesia

ID 613  A GA based lambda error assessment for yearly stock forecast: A manufacturing case study
Maricar Navarro and Bryan Navarro, Technological Institute of the Philippines

11:30 – 1:00, THURSDAY  Project Management  Ballroom 3  Session Chair: Mizarun Rahman, UTM, Malaysia

ID 167  Development Standardized WBS (Work Breakdown Structure) for Scheduling Planning Based on Risk in Steel Bridge Projects Construction
Salman Al Farizi and Yusuf Latif, Project Management from Department of Civil Engineering, Universitas Indonesia

ID 168  Stakeholders Analysis of Performance Improvement Project on Integrated Development Public Space Child Friendly (RPTRA) In Jakarta Timur
Gloria Febriani and Yusuf Latief, Universitas Indonesia

ID 187  Standard Operational Procedure to an Effective Reserve Goods Procurement Based on Risk: the Government Building’s Project
Sindi Ajeng Hadiyanti and Yusuf Latief, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

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1:00 – 2:30 pm – Thursday Lunch Keynote – Grand Ballroom

Mr. Endang Ahmad Zakaria
President Director
PT Dharma Precision Tools
West Java Province, Indonesia

Session – Thursday (March 8) – 2:30 – 4:00 pm

2:30 – 4:00, THURSDAY  Business Management  Kapla
Session Chair: Mizanur Rahman, University of Malaysia, Sabah

ID 511 The Impact of Integrated Management System Implementation on Operational Performance in Industry
Elfianus Ivan Alfredo, Department of Industrial Engineering, University of Indonesia, Salemba, Jakarta, Indonesia
Rahmat Nurcahyo, Department of Industrial Engineering, University of Indonesia, Kampus Baru UI, Depok, Indonesia

ID 617 Sustainability and tourist satisfaction in Bromo Mountain, Indonesia
Rangga Restu Prayogo, Nurul Azizah and Sonja Andarini, Department of Business Administration, University of Pembangunan Nasional “Veteran”, East Java, Indonesia

ID 623 The Influence of Culture, Job Satisfaction and Motivation on the Performance of Lecturers/Emp
Linda Theresia, A. H. Lahuddin and Gadhí Ranti, Industrial Engineering Department, Institut Teknologi Indonesia
Ramón Bangun, Faculty of Administrative Science, Universitas Indonesia

ID 634 Developing Performance Measurement System of Management Maintenance in Government Building
Epo Ilham Ajiprasetyo and Yusuf Latief, Faculty of Engineering, Universitas Indonesia, Kampus Baru UI Depok, Jawa Barat, Indonesia

ID 242 Strategies for Core Establishment in Iranian Banking Industries
K. M. Cyrus (PhD.) and Nader. Nematpour (MSc.) Department of Industrial Engineering and Management Systems, Amirkabir University of Technology (Tehran Polytechnic), Iran
A. Jafari (MSc.) Department of Industrial Engineering and Management Systems, University of Science & Technology, Tehran, Iran

ID 696 Assessment of the Willingness to Adopt and Benefits of Adopting Light Gauge Steel (LGS) for Construction Projects
Oluwaseun S Dosumu, Clinton Aigbavboa, Wellington Thwala and Unathi Mboya, Sustainable Human Settlement and Construction Research Centre, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

2:30 – 4:00, THURSDAY  Healthcare Systems  Rubix
Session Chair: Maria S. Sebastín, Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka, India

ID 013 Increasing Ambulance Capacity with a Lean TOC Approach
Bernardo Villarreal, Fernando González Aleu, Arturo Quezada, Gabriela Morales and Aracely Carranza, Universidad de Monterrey San Pedro Garza García, N.L., Mexico

ID 017 A System Dynamic Approach of Patient Satisfaction in India’s Leading Healthcare
Maria S. Sebastín, School of Business, Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka, India
Mridula Sahay, Amrita School of Business, Amrita Vishwa Vidyapeetham University, Coimbatore, Tamil Nadu, India

ID 041 A Comparison of Ambulance Location Models in Two Mexican Cases
Edgar Granda, Bernardo Villarreal and Gabriela Morales, Universidad de Monterrey San Pedro Garza García, N.L., México
Yazmin Maldonado Instituto Tecnológico de Tijuana Tijuana, Mexico

ID 060 Success Factors of a Performance Excellence Model: A Hospital Case Study
Fernando Gonzalez Aleu, Department of Engineering, Universidad de Monterrey, San Pedro Garza García, NL, Mexico

ID 076 A System-Dynamics Based Model for Implementing Theory of Constraints on Healthcare Systems
Mohamed Grida, Mahmoud Zeid and M. Adel El-Baz, Industrial Engineering Department, Faculty of Engineering, Zagazig University, Zagazig, Egypt

ID 615 Minimizing Response Time in Medical Emergency Service: A Literature Review
Muhammad Ismail Hadiyul Umam, Budi Santosa and Nurhadi Siswanto, Industrial Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

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**2:30 – 4:00, THURSDAY**

**Human Factors and Ergonomics**

**Dao**

Session Chair: Markus Hartono, University of Surabaya, Indonesia

**ID 049 Work-Related Musculoskeletal Discomforts among College Teachers: An Assessment**

Engr. Ryan Jeffrey P. Curbano, ASEAN Eng, Maria Cristina Victoria C. Bagos, Melanie L. Corpus, Aira P. Lusterio, Industrial Engineering Department Lyceum of the Philippines Laguna, Philippines

**ID 162 Ergonomics-based Kansei Engineering and Kano Model for Public Services Excellence**

Markus Hartono, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya, Indonesia

**ID 172 Identifying Factors that Facilitates Functioning of Virtual Teams in Supply Chain with Differing Strategy Orientation**

R.R.K. Sharma and Vinayak Drave, Sanjay Mittal Chair Professor (HAG Scale), Department of Industrial Management and Engineering, Indian Institute of Technology Kanpur, Kanpur, U.P., India

Ateequr Rahman, Office of the Dean of Academic Affairs, Indian Institute of Technology, Kanpur, India

**ID 192 Impact of climate on water stress in the vegetative development of the cultivated table vine of Vitis vinifera ssp sativa in Algeria**

Kaddour EL HEIT, Professor, Laboratory of Natural Resources: Viticulture / Arboriculture. Faculty of Biological Sciences and Agronomic Sciences. University Mouloud Mammeri.TiziOuzou., Algeria

Abderrahmane MELLAK, Professor, Laboratoire : LGPH H.C. University Mohamed Bougara .Boumerdes, Algeria

Abderazak HAMAMA, PhD, Assistant Research, Laboratories of Natural Resources: Viticulture / Arboriculture, Faculty of Biological Sciences and Agronomic Sciences. University Mouloud Mammeri.TiziOuzou., Algeria

Session Chair: Abderrahmane Mellak, University of Boumerdes, Algeria

**ID 701 Use of Social Media as a medium for disclosing Corporate Social Responsibility (CSR) Disclosures in India**

Mr. Giftson and Shekar Babu, Department of Management, Amrita Vishwa Vidyapeetham University, Bangalore, India

**ID 208 Characterization and Modeling of Rheological Behavior of a System of Mud a Reverse Emulsion**

Mellak Abderrahmane, Boumerdes University, Algeria

Kaddour El Heit, Université Mouloud MAMMERI, Algeria

Khaled Benyounes, University M'Hamed Bougara of Boumerdes, Algeria

**2:30 – 4:00, THURSDAY**

**Construction Management**

**Jovo**

Session Chair: Yusuf Latief, Universitas Indonesia, Depok, Indonesia

**ID 140 Development of Quality Management System in the Process Planning Maintenance Risk-Based in Government Building**

Riany Aldesty and Yusuf Latief, Construction Management from Department of Civil Engineering, University of Indonesia

**ID 189 Integration Process Models of Quality, Safety, Health and Environment Management Systems to Achieve Sustainability Construction**

Muhammad Rofi’udin, Magister Program Student Civil Departement Faculty of Engineering University of Indonesia, Jakarta, Indonesia.

Yusuf Latief, Professor Civil Department Faculty of Engineering University of Indonesia, Jakarta, Indonesia

**ID 190 Development of Standard Operational Procedure (SOP) of Risk-Based Fire Emergency Response on Government Building**

Nurma Rahmani and Yusuf Latief, Construction Management of Civil Engineering, University of Indonesia, Depok, Indonesia

**ID 264 Development of Standardized WBS (Work Breakdown Structure) Based on Risk for Cost Control of Steel Bridge Construction Project**

Ardiyanto Nugroho and Yusuf Latief, Construction Management from Department of Civil Engineering, Universitas Indonesia, Depok, Indonesia

**ID 668 Benchmarking Study for Sustainable Oil and Gas Offshore Platform Decommissioning In Indonesia**

Sari Amelia, Yusuf Latief, and Iwan Renadi Soedigdo, Department of Civil Engineering, University of Indonesia, West Java, Indonesia

**ID 716 Shopping Centre Classification Scheme: A Comparison of International Case Studies**

Ifhasuzilla Ibrahim, Abdul Talib Bon, Abdul Hadi Nawawi and Edie Ezwan Mohd Safian, Faculty of Architecture, Planning and Surveying, UiTM, 40450 Shah Alam, Malaysia, Faculty of Technology Management & Business, UTHM, 86400 Johor, Malaysia

Ifhasuzilla Ibrahim, Architecture, Planning and Surveying Department, UiTM, Shah Alam, Malaysia

**ID 699 Building a Safety Culture in the Construction Sector: A Model to Assess the Safety Maturity of a Company**

Johan Santososo, Yusuf Latief and Rossy Armyn Machfudiyanto, Department of Civil Engineering, Universitas Indonesia, Depok, Indonesia
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<th>Session Chair: Wei-Ting Chen, National Cheng Kung University, Tainan, Taiwan, R.O.C</th>
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<td>ID 328 Aircraft Taxiing Strategy</td>
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<td>M. Izuddin Md Ittham and Iastas F. Nusyirwan, Department of Aeronautics, Automotive &amp; Ocean Engineering, Universiti Teknologi Malaysia</td>
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<td>Jafri Mohd Rohani and Floridah Jelion, Department of Materials, Manufacturing &amp; Industrial Engineering, Universiti Teknologi Malaysia</td>
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<td>Nordiana Mashros, Department of Geotechnics &amp; Transportation, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia</td>
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<td>ID 327 Performance Management Using Influence Diagrams: The Case of Improving Procurement</td>
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<td>Mohammad Hassan Abolbashari, Omar Khadeer Hussain and Elizabeth Chang, School of Business, University of New South Wales, Canberra, BC, Australia</td>
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<td>ID 405 Cogitating Sustainability on Ethical Code Enactment: Comparing Social Work Administrators’ Habitus and Gender Parity Outcomes</td>
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<td>Okafor Jude Aniemeka and Prof. Charles Mbohwa, Department of Operations Management, University of Johannesburg, South Africa</td>
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<td>ID 582 Sustainable City Development – A Review</td>
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<td>ID 437 Comparison Method of Spatial Autoregressive Probit Estimation</td>
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<td>Fevi Novkaniza, Department of Mathematics, Faculty of Mathematics and Natural Science, University of Indonesia, Depok, Indonesia</td>
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<td>ID 544 Geographically Weighted Zero-Inflated Poisson Regression (GWZIPR) for Excess Zero Problems and Heterogeneity of Spatial Data: Application for Number of Diphtheria Disease Cases in West Java Province in 2014</td>
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<td>Ma’rufah Hayati Mt, Department of Statistics, The University of Nahdlatul Ulama Lampung, Sukadana, Indonesia</td>
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<td>ID 438 Contractors’ Perspective on Application of Earned Value Analysis (Eva) As Cost Controlling Tools in Construction Projects</td>
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<td>Mohd Amir Shazwan Hashim and Lee May Han, Quantity Surveying Department, INTI International University, Nilai, Negeri Sembilan, Malaysia</td>
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<td>Nurul Munazzah Sadikin, Faculty of Built Environment, Linton University College, Mantin, Negeri Sembilan, Malaysia</td>
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### Session – Thursday (March 8) – 4:30 – 6:00 pm

#### Project Management

**ID 619 Hierarchies Consistency Analysis for Quality Performance Assessment: A Study of the Criterion Weights**  
Mehran Doulat-Abadi and Hajime Ushimaru, School of Business Administration, Meiji University, Tokyo, Japan  
Azizah Yusof, Department of Educational Technology and Creative Multimedia, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia

**ID 626 Evaluation Design and Build Contract System in Mixed Used Building Project Based On Standard Contract Management Body of Knowledge**  
Evelyn Monica Thamrin and Yusuf Latief, Civil Engineering Department, University of Indonesia

**ID 151 Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Quality Planning of Road Construction Project**  
Rahmanita Ayu Amini and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Jakarta, Indonesia

**ID 642 Development of Quality Management System in the Process Planning Risk-Based in Government Building**  
Riani Aldesty and Yusuf Latief, Civil Engineering Department, Faculty of Engineering, University of Indonesia, Jakarta, Indonesia

**ID 643 Development of Standard Operating Procedures of Reserve Goods Inventory on Risk Basis for Maintenance and Repair Activity in Government Building**  
Sindi Ajeng Hadiyanti and Yusuf Latief, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

**ID 644 Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Quality Planning of Flyover Works**  
Made Widhi Adnyana Surya Pratita and Yusuf Latif, Civil Engineering Department, University of Indonesia, Salemba, Jakarta, Indonesia

**ID 169 Development of Standard Operational Procedures for Maintenance and Supervision of Repair Works on Government Building at Risk Based**  
Prisca Anggia Putri, Magister Program Student Civil Engineering Universitas Indonesia, Jakarta, Indonesia  
Yusuf Latief, Professor Civil Engineering Universitas Indonesia, Jakarta, Indonesia

#### Healthcare Systems

**ID 110 Validity and Reliability Analysis of Safety Climate Factors at Small and Medium-sized Enterprises (SMEs) Wood Based Furnitures**  
Alfian Destha Joanda and Bambang Suhardti, Faculty of Industrial Engineering, Sebelas Maret University (UNS), Jl. Ir Sutami No.36A Jebres, Surakarta, Indonesia

**ID 173 The Well-Being Situation of Existing Working of Selected Rice Mills Situated In Sylhet City, Bangladesh**  
M. Iqbal and A.B.M Abdul Malek, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh

**ID 218 Reduce Turnaround Time through Waste Elimination**  
Bernardo Villarreal, Fernando Gonzalez Aleu, Arturo Quezada, Gabriela Morales & Aracely Carranza, Universidad de Monterrey, San Pedro Garza Garcia, N.L., México  
Jose Arturo Garza Reyes, Derby Business School, The University of Derby, Derby, UK
ID 559  Conceptual Map based on System Dynamics Thinking for Operating Room Theatre
Mahmoud Zeid, Mohamed Grida, M. Adel El-baz and Gamal Nowara, Industrial Engineering Department, Engineering Faculty, Zagazig University, Zagazig, Egypt

ID 646  Application of Product-Limit and Nelson-Aalen Methods in Health Insurance for Estimating Mean and Variance of Infected Duration of Dengue FEVER
Sukono, Dwi Susanti, Alit Kartiwa, Rani Q. F., Dept. of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Yuyun Hidayat, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Johor, Malaysia

ID 450  Establishing Wind Farm for Desalting Sea Water to Produce Hydrogen
Mostafa Rezaei and Amir-Mohammad Golmohammadi, Industrial Engineering Department, Yazd University, Yazd, Iran
Abbas Mahmoudabadi, Mehrastan University, Gilan, Iran

4:30 – 6:00, THURSDAY  Human Factors and Ergonomics  Dao

Session Chair: Rosemary R. Seva, De La Salle University – Manila, Philippines

ID 409  Causes of Food Crisis in the Southern African Development Community
Ndala Yves Mulongo and Pule Aaron Kholopane, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 419  Integrating Affective Requirements in Car Design Methodologies
Rosemary R. Seva, Ronald S. Mariano and Alma Maria Jennifer A. Gutierrez, Industrial Engineering Department, De La Salle University – Manila, Philippines

ID 460  Safety Perceptions and Safety Behavior in University Teaching Laboratory
Nur Annisa Faradilla Puteri and Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 500  A Predictive Model of Motorcycle Accident Involvement Using Structural Equation Modeling considering Driver Personality and Riding Behavior in Metro Manila
Aaron Bathan, James de Ocampo, Jasper Ong, Alma Maria Jennifer Gutierrez, Rosemary Seva and Ronald Mariano, Industrial Engineering Department, De La Salle University – Manila, Philippines

ID 531  Implementation of Horizontal Strategy for Conglomerate firms: The Role of Five-Factor Model
Pratima Verma, Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India
Vimal Kumar and Rahul Gajbhiye, Department of Management Studies, National Institute of Technology Bhopal, India
Vignesh Muthukumar, Consultant, EXL Services, Bengaluru, India

ID 546  Development of Ergonomics Intervention in Manual Material Handling to Prevent Work Related Musculoskeletal Disorder
Ryan Jeffrey P. Curbano, Department of Industrial Engineering, Lyceum of the Philippines Laguna, Philippines
Makiling, Calamba, Laguna, Philippines

ID 567  Head and Face Anthropometric Measurements for Saudi Arabian Females
Abdalla Alrashdan, Aisha Alkaff and Shatha Khamis, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

4:30 – 6:30, THURSDAY  Construction Management  Jovo

Session Chair: Ahmed Mohamed Hammad, University of Sharjah, Sharjah, U.A.E

ID 411  Analysis of Accident in Construction Projects
Toriq Arif Ghuzdewan and Petrus Reza Renanda Damanik, Civil and Environmental Engineering Department, Gadjah Mada University, Yogyakarta, Indonesia

ID 425  Improvement of Safety Maturity Model Affected by Policy and Institution to Build Safety Culture in Construction Sector
Johan Santos and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 569  The Role of Information and Communication Technology in Construction Risk Management
Amari Sulaiman Bu Qammaz, Civil Engineering Department, Kuwait University, Kuwait
Rufaidah Yousef AlMaian, Industrial and Management Systems Engineering Department, Kuwait University, Kuwait

ID 579  Application of Knowledge Discovery in Database (KDD) Techniques in Cost Overruns of Construction Projects
Mal Monir Ghazal and Ahmed Mohamed Hammad, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, U.A.E

ID 581  Benefits of Green Building- A Case Study of Johannesburg
Elizabeth Ojo-Fafore, Clinton Aigbavboa and Pretty Remaru, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa

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ID 610  Value Management for Sustainable Built Environment in Nigeria
Aghimien Douglas Omorie, Oke Ayodeji Emmanuel and Aigbavboa Clinton Ohis, Department of Construction Management & Quantity Surveying, University of Johannesburg, South Africa

ID 364  Risk Analysis Related to Costing and Scheduling of Construction Projects
Mohamed A. Aderbag, Project Manager, Organization for Development of Administrative Centers (ODAC), Tripoli, Libya
Saber Kh. Elmabrouk, Faculty of Engineering, University of Tripoli, Libya

ID 398  Risk Assessment of EPS in Building and Construction Projects: A New Technology in the Libyan Market
Abdelwahed H. Elalem, Engineering Project Management, School of Engineering and Applied Science, The Libyan Academy, Tripoli-Libya
Saber Kh. Elmabrouk, Faculty of Engineering, University of Tripoli, Tripoli, Libya

4:30 – 6:30, THURSDAY  Sustainable Manufacturing  Ludo
Session Chair: Rahmat Nurcahyo, Universitas Indonesia

ID 069  Using the Delphi method to verify a framework to implement sustainability initiatives
Bruno Gallotta, Jose Arturo Garza-Reyes and Anthony Anosike, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 131  How the Reverse Channel Strategy is Affected by EPR Policies and Asymmetric Information
Yang Liu and Yang Zhang, Department of Industrial Engineering, Tsinghua University, Beijing, P.R. China

ID 471  Investigating the Benefits and Challenges of the Implementation of ISO 9001 and ISO 14001 in the Aerospace Industry
Novia Ayu Pratama, Vikas Kumar and Archana Kumari, Bristol Business School, University of the West of England, Bristol, UK
Jose Arturo Garza-Reyes and Simon Peter Nadeem, Derby Business School, The University of Derby, Derby, UK

ID 463  Manufacturing Capability, Sustainability Strategy, and Manufacturing Performance of Indonesia Automotive Manufacturer
Edwin Aditya Herbanu, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia
Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Kampus Baru UI Depok, Depok, Indonesia

ID 514  A Simulation Approach for Determining Delivery Time in a Waste Materials Based Make-To-Order Manufacturing Company
Nur Indrianti, Bachtiar Rakagandhi and Tri Wibawa, Dept. of Industrial Engineering, Universitas Pembangunan Nasional “Veteran” Yogyakarta, Indonesia

ID 707  A Cold-inflow Free Solar Chimney Dryer for Seaweed Drying in Sabah, Malaysia
Md. Mizanur Rahman, Energy Research Group, Materials and Minerals Research Unit, Faculty of Engineering, Universiti Malaysia Sabah
Hooi Kim Phang, Chi Ming Chu and Sivakumar Kumaresan, Thermal and Environmental Research Group, Materials and Minerals Research Unit, Faculty of Engineering, Universiti Malaysia Sabah
Suhaimi Md. Yasir, Seaweed Research Unit, Faculty of Science and Natural Resources, Universiti Malaysia Sabah

ID 720  Inventory Control Policies in the Humanitarian Supply Chain using System Dynamics Modeling
Ali Anjomshoae, Adnan Hassan and Kwan Yew Wong, Department of Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Malaysia

4:30 – 6:00, THURSDAY  Work Design and Measurement  Shogi
Session Chair: Tri Rakhmawati, Indonesian Institute of Sciences, South Tangerang, Banten, Indonesia

ID 086  Productivity Improvement in Assembly Line by Reduction Cycle Time using Time Study at Automotive Manufacturer
Abdul Talib Bon and Siti Nor Aini Samsudin, Production and Operations Management Department, Universiti Tun Hussein Onn, Johor, Malaysia

ID 473  Designing Nonconforming Services (NCS) Control System for ISO 9001 Implementation
Sih Damayanti, Tri Rakhmawati, Sik Sumeadi and I Gede Mahatma Yuda Bakti, Research Center for Quality System and Testing Technology, Indonesian Institute of Sciences, South Tangerang, Banten, Indonesia

ID 625  Study to Design and Develop an Entrepreneur Model: Perspectives from Tannery Industry in Oman
Ahm Shamsuzzoha, Mohammad Khadem and Sujan Piya, Dept. of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

ID 540  The Integrated Method of Warehouse Layout and Labor Scheduling To Reduce Overtime
Franesica Dini Ariyanti, Aurellia Victoria, Lidya Guestine and Noviana, Industrial Engineering, Faculty of Engineering, Bina Nusantara University, KH. Syahdan, Jakarta, Indonesia

ID 031  Hospital Logistics Activities
Fouad Jawab, Youness Frichi and Said Boutahari, Sidi Mohamed Ben Abdellah University, Fez, Morocco

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ID 687  Relationship between Safety Climate Factors and Safety Performance in Chemical Industries  
Shalini Tayaparart, Jafri Mohd Rohani, Khidzir Zakaria, Aminr A Rashid and Mohd Izuddin M Itinan, Department of Materials, Manufacturing & Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 81310 Skudai, Johor Bahru, Malaysia

ID 718  Implementation of Production Planning Tools in Sugar Industry  
Santosh Gudagunti, Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

4:30 – 6:00, THURSDAY  Optimization and Statisticits  Ballroom 3

Session Chair: Charles Mbohwa, University of Johannesburg, South Africa

ID 647  Estimation of Conditional Value-at-Risk under Assets Liability Model with Non Constant Volatility  
Sukono, Alt Kartiwa and Betty Subartini, Dept. of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

ID 648  Branch and Bound Algorithm for Finding the Maximum Clique Problem  
Mohammad Suyudi, and Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

ID 654  Design of Hybrid Solar Tobacco Curing System for Small Scale Farmers in Zimbabwe  
Ignatio Madanhire and Takunda Chiwarange, Department of Mechanical Engineering, University of Zimbabwe, Mt Pleasant, Harare, Zimbabwe

ID 655  Turning Industrial Area into an Eco –Industrial Park in South Africa: Case Study  
Ignatio Madanhire, University of Zimbabwe, Department of Mechanical Engineering, P.O Box MP167, Mt Pleasant, Harare, Zimbabwe

ID 657  Using 7 Waste Approach and VSM Method to Improve the Efficiency of Mackerel Fish Crackers Production Time at Small Medium Enterprise (SME)  
Muhammad Kholid, Industrial Engineering Department, Faculty of Engineering, Universitas Mercu Buana, Jakarta Barat, Indonesia

ID 659  Risk Management in Sand Mining Enterprise Using Fuzzy Failure Mode and Effect Analysis (Fuzzy FMEA)  
Deasy Kartika Rahayu, Industrial Engineering Department, Faculty of Engineering, Mulawarman University, Samarinda, East Borneo, Indonesia

ID 661  A GIS-Based Decision Making Approach on the Evaluation of Sustainable Business Location for Purpose-Built Offices in Malaysia  
Edie Ezwan Mohd Safian, Heng Jia Yun, Burhaida Burhan, Mohd Lizam Mohd Diah and Mat Tawi Yaacob, Department of Real Estate Management, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia

4:30 – 6:00, THURSDAY  Engineering Education and Management  Ballroom 1

Session Chair: Abderrahmane Mellak, University of Boumerdes, Algeria

ID 670  Towards A Conceptual Framework for Service-Learning in Online Learning Environment  
Azziah Yusof, Noor Azean Atan and Jamaluddin Harun, Department of Educational Technologies, Mathematics and Creative Multimedia, Universiti Teknologi Malaysia, 81310 Johor Bahru, Johor, Malaysia

ID 702  Social Media and Luxury Fashion in India: Use of Social Media by Brands  
Arunima Kailthya and Shekar Babu, Department of Management, Amrita Vishwa Vidyapeetham University, Bangalore, 560035, India

ID 688  Logistics Outsourcing: From the Contracts Complexity to the Performance of the Logistic Services  
Jabri Arif, Equipe de recherche Modélisation et Optimisation des Systèmes Industriels et Logistique Ecole Nationale des Sciences Appliquées (ENSA) Université Abdelmalek Essaâdi Tetouan, Morocco

ID 715  The Relationship between the ‘Big Five’ Personality and Career Success  
Norliyana Zakaria and Halimah Mohd Yusof, Faculty of Management, University of Technology Malaysia, Johor Bahru, Malaysia

ID 143  Detecting Amorphous and Its Effects during Education at Professional Training Department  
K.M. Cyrus and Abbas Ahmadi, Industrial Engineering Faculty, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

ID 582  Sustainable City Development – A Review  
Elizabeth Ojo-Fafore, Clinton Aigbavboa and Wellington Thwala, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa
Tuesday, March 6, 2018

Session I: Industry Solutions
8:00 – 9:30 am (Tuesday) – Room Rubix
Session Chair: Dr. Sharan Shetty, Manipal International University, Malaysia

8:00 – 8:30 (Tuesday)

Dr. Sharan Shetty
Assistant Professor of Finance
Industry Coordinator & Motivational Speaker
School of Management & Business
Manipal International University
Putra Nilai, Negeri Sembilan Darul Khusus, Malaysia

Dr. Sharan Shetty is currently working at Manipal International University, Malaysia as an Associate Professor of International Finance & Banking. Dynamic career of more than 16 years that reflects rich Indian & overseas experience & year-on-year success in Teaching & Mentoring and Educational Leadership Successfully worked as an External Examiner of Doctoral Business Administration of External Examiner for Doctor of Philosophy Thesis Evaluation. Trainer for Outcome Based Education (OBE) Presented 23 Research Papers in National and International conferences in India and abroad. Publishes several research papers in high reputed journals in India and Abroad. Dr. Shetty is an editorial Board member of any international publications. Visited Philippines, Sri Lanka, & Vietnam to train faculty on OBE and Motivational Training Expertise in teaching & delivering lectures to MBA & UG students on "Financial Management, International Financial Management, International Business Finance, Business Taxation, Behavioural Skills and Entrepreneurship & Leadership" Strong exposure in providing an educational atmosphere where students have opportunity to fulfil potential for intellectual, emotional & psychological growth. His research interest is in the areas of Banking & Finance Innovations & Sustainability, and Entrepreneurship & Leadership for Sustainability, Sustainability in Learning & Motivation.

8:30 – 9:00 (Tuesday)

Bob Mathur
Sr. Project Manager
Phillips 66 Refinery (Exxon)
Linden, NJ 07036, USA

Latest Tools for Project Engineering & Management in Construction Industry including, Refinery, Pharmaceutical and IT

Prof. Bob Mathur has been teaching post-graduate, Master level courses in Project Management and Project Controls at the New Jersey Institute of Technology (NJIT) as an adjunct professor for the past eight years. He teaches these classes in addition to his full-time employment as a Senior Manager at Phillips 66 Refinery in New Jersey where he is responsible for concept to execution of capital projects for the Refinery. In both the courses Prof. Mathur, therefore, integrates his vast practical experience in engineering and management experience from India, Germany, Holland, England and the USA. He also brings the students a good mix of theory of academics and practice of corporate culture. Prof. Mathur’s teaching style is extensively interactive with the students where he shares with them the practical knowledge and experience he has gained in the last 39 years from various countries. He updates his syllabus continuously to ensure that the use of the latest technologies and facilities including smart phones and the associate apps; IPad etc. becomes a part of his teachings. Prof. Mathur is a Chemical Engineer with a MS from Germany. He is currently a Senior Manager for the Phillips 66 Refinery in New Jersey where he is responsible for all engineering estimates for all Capital Projects as well as Project Management and field execution for these projects. He is an active member of the AACE International (Association for the Advancement of Cost Engineering). Prof. Mathur has been the President of the NJ Chapter of this National body for three consecutive years and was the Chairman of the Education Board of the New Jersey Chapter of the AACE. He was the recipient of the Order of the Engineer Award for 1997 from Canada. Bob has been in the Strathmore Who’s Who (USA) for two consecutive years in 1997-98 and 1998-99, and was selected in the American Registry of Outstanding Professionals for year 2001-02. He has also been a member of the Board of Executives (Education) of AACE International at Morgantown, West Virginia.

9:00 – 9:30 (Tuesday)

Farshid Pirahansiah
Senior Researcher
MIMOS Berhad
Deep Learning in Computer Vision, Consultant, Trainer
Technology Park, Kuala Lumpur
Malaysia

Deep Learning in Computer Vision

Farshid Pirahansiah is a senior researcher at MIMOS Berhad (Malaysia's national R&D center in ICT) in area of Computer Vision, Deep Learning, and video analysis. He holds PhD and Master’s Degrees in computer science (computer vision) from National University of Malaysia (UKM). He has written numerous papers on the topic of computer vision based on his research.
IEOM Industry Solutions  March 6-8, 2018  Bandung, Indonesia

and consultative works. He conducts several workshops in image processing, computer vision with OpenCV, and hands-on workshops in deep neural networks for computer vision.

Session II: Industry Solutions
11:30 am – 1:00 pm (Tuesday) – Room Rubix
Session Chair: Edly Ferdin Ramly, EFR Certification, Johor Bahru, Malaysia

11:30 – 12:00 (Tuesday)

Dr. Mehran Doulat-Abadi
Visiting Senior Research Fellow
Centre for Organisational Excellence Research (COER)
Massey University, Palmerston North, New Zealand

Dr. Mehran Doulat is currently a Visiting Senior Research Fellow at Centre for Organisational Excellence Research (COER). He holds a Bachelor of Science in Engineering, double Master’s Degrees in Engineering Management and Quality Management as well as a Graduate Certificate in Quantitative and Qualitative Research Design from University of Wollongong, New South Wales, Australia. Dr. Doulat has also worked as Postdoctoral Research Fellow in the field of Innovation and Performance Excellence. Before joining academia, he worked for 17 years as a Quality Manager, Project Manager and Consultant in a number of different industries in UAE. He has been actively involved in numerous interdisciplinary research projects in collaboration with research institutions, industries and government organizations in United States, Australia, New Zealand, Japan, Singapore, Malaysia, India, and UAE. He also serves as the Editorial Board member and Associate Editor/Reviewer for several referred academic journals and international scholarly conferences. He has published numerous articles related to his area of interest. Dr. Doulat has been received several awards and honours for his research contributions including “the IEEE Outstanding Publication Award in 2012 and 2013”, “the IEOM Best Paper Award in 2015”, and “the UOW Outstanding Alumni Award in Research and Innovation in 2016”. Dr. Doulat is a registered professional member of the Association for the Australian Organization for Quality (AOQ), the American Society for Quality (ASQ), the Union of Japanese Scientists and Engineers (JUSE). He has become a Certified European Excellence Assessor (CEEA) for Dubai Quality Award program in 2007. Dr. Doulat has also held visiting research appointments at University of Wollongong, New South Wales, Australia and Meiji University, Tokyo, Japan.

12:00 – 12:30 (Tuesday)

Dr. Mohamed Osama Grida
Founder & CEO
CAD/CAM/CIM
Cairo, Egypt

Mohamed Grida is an Assistant Professor in Industrial Engineering Department, Zagazig University. In addition, he is the founder and CEO of CAD/CAM/CIM and 2B Corp, which are two of the leading middle east companies in the fields of enterprises’ information technology integration, CAD/CAM consultation, and technology retailing. He earned both his B.S. and Ph.D. Degrees in Industrial Engineering from Zagazig University in Egypt, while he earned a MSc. in Industrial Engineering from the American University in Cairo, Egypt. Dr. Grida was a visiting scholar at Hong Kong University of Science and Technology and a visiting professor in October University of Modern Science and Arts in Egypt. He successfully advised four Master degrees students and one Ph.D. student. His research interests include: supply chain, ocean logistics, enterprise information systems, game theory, machine learning, artificial intelligence, and human computer interaction. On the professional side, Dr. Grida attended several training courses on management, enterprise resource planning, and cloud computing by Dassault systems, Microsoft, and Intel in USA, Singapore, Hong Kong, France, and Poland. He conducted a number of professional projects in the fields of information technology with Dassault Systems, Intel, Aramco, Lenovo, Dell, and HP.

12:30 – 1:00 (Tuesday)

Edly Ferdin Ramly
Certification Director
EFR Certification
Johor Bahru, Malaysia

Linkages of Context of Organization to Risk and Opportunities – Case Studies in ISO9001 certified organizations

Presently Mr. Edly is Certification Director and Lead Auditor for various certification schemes including ISO/TS16949. Apart from auditing, he is currently providing Lean, Business Excellence, Quality (ISO9001 and ISO/TS16949), Environment (ISO14001) and Safety (OHSAS18001) management system related consultancy, research and trainings to local and multi-national companies that seek operational improvement and breakthrough. His industrial experience was in the automotive industry. During his stayed with the TRW Automotive, he was tasked with the responsibility of promoting and implementing Lean and Six-Sigma within the Organization. Due to his extensive exposure in Lean and Six-Sigma Management System, he was invited by Malaysia Productivity Corporation (MPC) and Asia Productivity Organization (APO) to conduct training in the area of Lean and Six-Sigma implementation. Mr. Edly Ramly graduated from University of Bradford, UK with Bachelor Degree in Manufacturing System with Management. He then furthered his studies at Sheffield Hallam University, UK and awarded with a Master Degree of Science in Engineering with Management.

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2:30 – 3:00 (Tuesday)

**Indra Gunawan, PhD, MSCE, BEng**  
Associate Professor in Complex Project Management  
Director of Project Management Program  
Entrepreneurship, Commercialisation and Innovation Centre (ECIC)  
Faculty of the Professions  
The University of Adelaide  
Adelaide, Australia

**A Complex System Approach in System Reliability Analysis**

Indra Gunawan is Associate Professor in Complex Project Management and the Director of Project Management Program in the Entrepreneurship, Commercialisation and Innovation Centre at the University of Adelaide.

He received his PhD in Industrial Engineering and MSc in Construction Management from Northeastern University, USA. Prior to joining the University of Adelaide, he was a program coordinator for Maintenance and Reliability Engineering at Monash University. Previously he has also taught in the Department of Mechanical and Manufacturing Engineering at Auckland University of Technology, New Zealand and worked as the Head of Systems Engineering and Management program at Malaysia University of Science and Technology (in collaboration with the MIT, USA).

His current research interests include system reliability modelling, maintenance optimisation, project management, applications of operations research, and operations management. He is actively involved in the Asset Management Council, a technical society of Engineers Australia.

His work has appeared in many peer-reviewed journals such as International Journal of Project Management; International Journal of Production Research; Reliability and Maintenance Engineering; IEEE Transactions on Industrial Informatics; International Journal of Quality and Safety Engineering; Quality and Reliability Engineering International; International Journal of Project Organisation and Management; and International Journal of Quality and Reliability Management.

He also serves as an Editorial Board member for International Journal of Project Organisation and Management; International Journal of Information Technology Project Management; and International Journal of Performability Engineering.

3:00 – 3:30 (Tuesday)

**Navpreet Singh Chandok**  
O2i Technologies  
India

Navpreet Singh Chandok, is currently working with number of organizations including O2i Technologies, India. Also Founder of “Brotherhood Solutions” in India. I serve as Vice-Chairperson of CGC Collegiate Club since 2015. As founder of CGC Collegiate club, I served as judge panelist at various competitions. I am also working as hon. reporter of Anthak news, a weekly newspaper in Punjab. I had undertaken many projects during his graduation. I am indulge in delivering various seminars & workshops to mechanical engineering students on various project work, automobile overhauling, automobile CAD designs & analysis. Also mentoring number of research scholars in India. Also, deals in mentoring & Freelancing teachers for their technical industrial knowledge in robotics, 3D printing, Cad designs & in Product development. Recently, served in keynote speaker team at 3D printing conference at New Delhi, India.

3:30 – 4:00 (Tuesday)

**Dr. Murphy Choy**  
Director of Operations and Technology  
SSON Analytics  
Singapore

Certified Advanced Programmer for SAS V9  
Certified Basic Programmer for SAS V9  
DataShaping Certified SAS Professional

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

Dr. Murphy is an experienced analytics specialist with extensive experience in risk analytics, marketing analytics, social media and Big Data analytics. He has extensive experience in developing new techniques and models to achieve business objectives in real world application. He is also passionate about lifelong learning and is an active contributor to several international publications.
4:30 – 5:00 (Tuesday)

**Md Kawsar Ali**  
Chief Operating Officer  
Comfit Composite Knit LTD  
Dhaka, Bangladesh

Md. Kawsar Ali is a well-known expert and mentor in the garment industries of Bangladesh. He has twenty one years of professional experiences in RMG sector. He has worked in different capacities in leading companies like Beximco, Square, Orion and DBL. He has got strong communication, interpersonal relations, mentoring, negotiation and cross-cultural organizational skills, and has demonstrated such over the years with utmost productivity and reputation. He is also expert in Total Quality Management, Lean manufacturing, Kaizen, Leadership and self-development courses like Meditation and Yoga. Mr. Kawsar has completed his graduation from Khulna University of Engineering and Technology (KUET) also obtained an MBA degree from Dhaka University. He has participated in many workshops, seminars and training sessions in Bangladesh and abroad.

5:30 – 6:00 (Tuesday)

**Innah Dominique J. Puertollano, CIE, CLSSBB**  
Project Manager  
AXA Philippines

As a Project Manager, Innah is responsible for leading and managing cross-functional teams engaged in doing strategic initiative projects, business process reengineering, Lean Six Sigma studies, and other work improvement studies.

She obtained her Lean Six Sigma Black Belt Certification at a young age of 23. In 2014, she placed 5th in the Industrial Engineering Certification Exam organized by the Industrial Engineering Certification Board of the Philippines.

She holds a degree in Bachelor of Science in Industrial Engineering in Mapua Institute of Technology.

5:30 – 6:00 (Tuesday)

**Farrah “Nix” A. Juban**  
Process Engineering Excellence & Kaizen Service Program Manager for Assembly and Test Manufacturing  
Intel Corporation  
Penang, Malaysia

Nix is an International Strategic Lean Program Manager owning the Kaizen Service Program covering all of Assembly and Test Manufacturing sites of Intel in Asia. She has worked in various Intel plants in the Philippines, Israel, Vietnam, and the U.S. for over 18 years.

Her current work as a technical lean leader drives process improvements in Direct Labor/Man-to-Machine Ratio, Spares and Collateral Cost, Process Cycle Times, Defect Detection and other Efficiency and Quality factory and organizational metrics.

Aside from handling 14 complex products including chipsets and processors, she worked as Product Engineering Manager and led 6 New Product Integration and Maintenance of Business. She chaired various international working groups such as product development teams, test program change control board, and other technical test working groups. She also has held a position as Manufacturing Operations Manager.

Her expertise is demonstrated in more than 400+ hours of training on a wide variety of subjects such as Fundamental Project Management, Manufacturing Lean training programs, Product Development, Technical Thermal Testing, Manager Competencies, Manufacturing and New Product Introduction.

She has a B.S. Physics degree from De La Salle University and an Executive MBA degree from Ateneo/Regis University. She has spoken in various lean conferences in Asia and in the US. And is the first Asian Lean Expert speaker featured in the 2016 Summit of Lean Leadership Direct in the U.S.
Wednesday (March 7, 2018)

Session V: Industry Solutions
11:30 am – 1:00 pm (Wednesday) – Room Rubix
Session Chair: Dr. Kottala Sri Yogi, Guru Ghasidas Vishwavidyalaya, Bilaspur, (C.G) India

11:30 – 12:00 (Wednesday)
Dr. Kottala Sri Yogi
Assistant Professor, Department of Industrial & Production Engineering
Institute of Technology, Guru Ghasidas Vishwavidyalaya (A Central University)
Bilaspur 495009 (C.G) India

An investigation of process capability indices: A case of soft drinks processing unit

Dr. Kottala Sri Yogi is Assistant Professor in the Department of Industrial & Production Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, Chhattisgarh, India. He has a PhD in Operations Management, which he obtained from one of the Asia’s Premier and oldest technical Institute i.e Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India. His doctoral thesis was on Analysis of Sustainable Supply Chain Management Practices in Indian Manufacturing Industries. He received Master of Engineering with Distinction Specialising Industrial Engineering and Management from Rajiv Gandhi Proudyogika Vishwavidyalaya Bhopal, India. He’s bachelor degree Bachelor of Technology Specialising in Mechanical Engineering in Acharya Nagarjuna University, Guntur Andhra Pradesh, India. He had published more than 15 research papers covering both national and International Proceedings and International Journals. His research interests include Sustainability, Supply Chain Management, Reverse Logistics, Quality Control & Reliability Engineering, product development and Operations Management. He is currently a regular reviewer of twelve top tier referred management journals.

12:00 – 12:30 (Wednesday)
Dr. Abdul Talib Bon
Professor of Technology Management
Department of Production and Operations Management
Faculty of Technology Management and Business
Universiti Tun Hussein Onn Malaysia

Productivity improvement in Assembly Line by Reduction Cycle Time Using Time Study at Automotive Manufacturer

Dr. Abdul Talib Bon is Professor of Technology Management in Department of Production and Operations Management, Faculty of Technology Management and Business at the Universiti Tun Hussein Onn Malaysia. He has a PhD in Computer Science, which he obtained from the Universite de La Rochelle, France in the year 2008. His doctoral thesis was on topic Process Quality Improvement on Beltline Moulding Manufacturing. He studied Business Administration major in Quality Management at the master’s level in the Universiti Kebangsaan Malaysia for which he was awarded the MBA in the year 1998. He’s bachelor degree and diploma in Mechanical Engineering which his obtained from the Universiti Teknologi Malaysia. He received his postgraduate certificate in Mechatronics and Robotics from Carlisle, United Kingdom in 1997. He is Managing Director of UTHM Teaching Factory and Manager of Centre for Technology (Furniture Innovation Technology) from 1 September 2016 and Head of Program Bachelor of Technology Management (Furniture Design and Manufacturing) with Honours from 2014 until now. Before this he was the Deputy Dean (Research and Development) at the Faculty of Technology Management and Business in the Universiti Tun Hussein Onn Malaysia from 2008 until December 2011. Dr. Abdul Talib Bon has had over 28 year experience of teaching in higher learning education. A major part of his teaching experience involves teaching mechanical engineering students in polytechnics. However, from the year 1999, he was given the opportunity to be jointed in the Institut Teknologi Tun Hussein Onn (ITTHO), Universiti Teknologi Malaysia as a lecturer in Mechanical Engineering Department. In this institute, he teaches engineering management and quality control at the under-graduate level. Dr. Abdul Talib Bon has multidisciplinary research interests that encompass industrial engineering, quality management and production and operation management. His completed ten research grant projects include applications of forecasting in industries. His current research project is looking into developing process quality improvement (PQI) in manufacturing industries. He has supervised more than 65 undergraduate and postgraduate research projects. He has served as a reviewer for a number of engineering management and computer science conferences and journals as part of his expertise sharing initiatives. He had published more than 150 International Proceedings and International Journals and 8 books. He is also President of Industrial Engineering and Operation Management Society (IEOMS, Malaysia), Council member of Management Science and Operation Research Society of Malaysia (MSORSM), member of International Association of Engineers (IAENG), member of Institute of Industrial Engineer (IIE), USA, member of International Institute of Forecasters (III), member of Technological Association of Malaysia (TAM) and associate member of Malaysian Institute of Management (AMIM).

12:30 – 1:00 (Wednesday)
Mr. Hood Atan
EFR Certification
Johor Bahru, Malaysia

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

Session VI: Industry Solutions – PANEL SESSION – Women in Industry and Academia
2:30 – 4:00 pm (Wednesday) – Room Rubix
Session Chair: Dr. Ilham Kissani, Al Akhawayn University, Ifrane, Morocco

Dr. Ilham Kissani
Assistant Professor of Engineering & Management Science
School of Science & Engineering
Al Akhawayn University, Ifrane, Morocco

Dr. Ilham Kissani is an assistant professor in the field of engineering management for the School of Science and Engineering at Al Akhawayn University in Ifrane, Morocco. She has served as the main advisor and lead instructor for the undergraduate and MS programs in Engineering and Management Systems since 2010. She has helped create very close ties with the AUI School of Business Administration, which allows both schools to leverage our resources and deliver a greater diversity of courses to students, such as supply chain management and operations management. Her background is diverse and includes industrial experience as well as academic. Her degrees are from INSEA, Morocco (Engineer) and Université Laval, Canada (Master and Ph.D). She has worked with Royal Dutch Shell as a project manager and with Modellium Québec, where she consulted in logistics and supply chain issues. Additionally, Dr. Kissani contributes in research in supply chain management, planning, and operations research. She is a member of ASEM, IEEE, IEOM, IIE, INFORMS.

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 advisor of the newly established IISE BINUS University Student Chapter # 716 that has earned Gold Award in three consecutive years since the establishment.

Dr. Noha Mostafa
Assistant Professor
Department of Industrial Engineering
Zagazig University, Egypt

Dr. Noha Mostafa is an assistant professor in the department of Industrial Engineering of Zagazig University, Egypt. She received her B.Sc. in Industrial Engineering from Zagazig University in 2007 and earned her M.Sc. from Zagazig University in 2012. She was a visiting PhD student in Tokyo Institute of Technology, Japan in 2016. She will get her PhD in Industrial Engineering and Management from Egypt-Japan University of Science and Technology (E-JUST) in 2017. Her research interests include supply chain management, logistics management, operations research, and statistics. She has many journal and conference publications in addition to a book chapter. Although her studies are mainly scientific, Noha is interested in many other disciplines including history, literature, arts, and music. She believes that it is necessary to have such balance between science and arts in one’s life. Noha’s objectives are to contribute to the research in her field, and make good communications in the academic and industrial society to be able to strengthen the link between them. Noha is a wife since 2010 and she has a 5-year-old daughter, she believes that she would never have been able to succeed in her work and research without the support of her family.

Dr. Tagwa Ahmed Musa
Associate Professor
Dean – College of Petroleum Engineering and Technology
Sudan University of Science and Technology, Khartoum, Sudan

Dr. Tagwa Ahmed Musa Mohamed is an Associate Professor and Dean – College of Petroleum Engineering and Technology at Sudan University of Science and Technology, Khartoum, Sudan. Her specialist is Petroleum Engineering. She is the first woman in Sudan has a Ph.D. in Petroleum Engineering. She has a good contribution locally, globally, and internationally.
# Exhibitors

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## Sponsors
- INFORMS (Institute for Operations Research and Management Sciences)
- SIEMENS
- Eaton

## University Partners
- Institut Teknologi Bandung (ITB)
- Universiti Teknologi Malaysia
- Universiti Tun Hussein Onn Malaysia
- Bina Nusantara University (BINUS University), Jakarta, Indonesia
- IESEG, School of Business, France
- Universitas Mercu Buana, Jakarta, Indonesia
- Lawrence Technological University, Michigan, USA
- LEM (Lille Economics Management) – A research unit associating the CNRS (National Center for Scientific Research), the University of Lille and the Catholic University of Lille (FUPL), France
- Sampoerna University, Jakarta, Indonesia
- Universitas Indonesia
- University of New Brunswick at Fredericton, Canada
- Trisakti University, Jakarta, Indonesia
- Universitas Muhammadiyah Surakarta, Jawa Tengah, Indonesia

## Corporate Partners
- Eaton Corporation
- SIEMENS
- EFR Certification

## Organization Partners
- African Engineering Education Association (AEES)
- International Federation of Engineering Education Societies (IFEES)
- Indian Institute of Industrial Engineering (IIIE)
- Pakistan Society of Industrial Engineers (PSIE)
- Society of Cost and Quality Engineers (SCQE)
The International Federation of Engineering Education Societies (IFiEES)

IFiEES was founded in 2006, at the American Society for Engineering Education’s Global Conference in Rio de Janeiro, Brazil. Engineering education leaders from around the world had gathered the previous year to explore possibilities of creating an international organization for engineering education societies. IFiEES is proud to be leading the effort in connecting the world’s engineering education societies and leveraging our members’ collective strengths in order to improve engineering education worldwide. IFiEES members represent a diversity not only in cultures, but in engineering education interests, from quality assurance to engineering education, from pedagogy to the role of technology in the classroom. IFiEES member societies are expanding their global reach, and new relationships and collaborations are created all the time through IFiEES’ global network.

Through the collaboration of its member societies, IFiEES will work to establish effective engineering education processes of high quality around the world to assure a global supply of well-prepared engineering graduates. IFiEES will strengthen member organizations and their capacity to support faculty and students. It will attract corporate participation, helping to connect engineering graduates with international corporations that have a pressing need for well-trained engineers who can work in a global environment. IFiEES will also enhance the ability of engineering faculty, students and practitioners to understand the varied cultures of the world and work effectively in them.

Global Engineering Deans Council (GEDC)

Recognizing the global need for a world-wide forum of engineering deans and rectors, a group of over 20 leaders of engineering education institutions and corporate partners first met in Rio de Janeiro, Brazil, on 9 October 2006 and in Istanbul, Turkey, on 30 September 2007. Encouraged by IFiEES and modeled after the ASEE Engineering Deans Council (EDC), the Global Engineering Deans Council (GEDC) was created on 9 May 2008 in Paris, France. The main goal of the GEDC is to provide engineering deans and rectors with ideas, tools, and “best” practices necessary to become innovative leaders of engineering education.

The GEDC holds annual meetings surrounding four strategic objectives: Institutional Leadership, Curriculum Leadership, Policy Leadership and Accreditation Leadership. Accommodating for its diverse membership, the GEDC has met in Argentina, Brazil, Turkey, France, Singapore, People’s Republic of China, United States of America, Hungary, the United Arab Emirates, and will meet in Italy and Australia in 2015.

AFRICAN ENGINEERING EDUCATION ASSOCIATION (AEEA)

The African Engineering Education Association (AEEA) was established at University of Pretoria, South Africa in 2006 after the 3rd African Regional Conference on Engineering Education. The Association was registered in Nigeria in 2012. AEEA is a member of the International Federation of Engineering Education Societies (IFiEES). It also has relationship with other national, regional and international organizations. The members of AEEA are from the five sub-regions (North, Southern, West, East and Central) of Africa.

Some of the objectives of the AEEA are to:
- Promote excellent quality engineering education in Africa and bridge the North-South divide
- Provide network opportunities of engineering educators through Regional Conference on Engineering Education
- Improve teaching and learning in educational institutions, through workshops for engineering educators.
- Enhance the development of next generation engineering educators with regional Postgraduate Training Centres
- Promote exchange of students across the continent through removal of international fee barriers.
- Promote technological careers for women, so as to increase the proportion of women in the engineering workforce.
- Collaborate with international organizations to promote research & development in engineering education in Africa.

AEEA’s Activities

1st and 2nd African Regional Conference on Engineering Education (ARCEE) in 2002 & 2004 at the University of Lagos, Nigeria
3rd ARCEE in 2006 at Univ. of Pretoria, South Africa
4th ARCEE in 2008 at Dar es Salaam, Tanzania

In 2008, AEEA co-hosted the 7th American Society of Engineering education (ASEE) Global Colloquium on Engineering Education and 2nd Summit of the International Federation of Engineering Education Societies (IFiEES) at Univ. of Cape Town, South Africa

China-AEEA Capacity Building Workshop was held in Tsinghua University, Beijing, China for AEEA members from the five African sub-regions in 2009.

5th ARCEE 2013 and Inauguration of the African Engineering Deans’ Council (AEDC) at the University of Lagos, Nigeria.

The 6th African Regional Conference on engineering education has been scheduled in South Africa in 2016.

Prof. Funso Falade, President, AEEA
IEOM Student Chapters

IEOM Student Chapter can help students in the development or enhancement their outer important skills, including: leadership, communications, organization, planning, time management, budgeting and finance, and other professional skills. Those can help to prepare for their career and to be successful in longer term. If any student group of any educational institute is interested to form an IEOM Student Chapter, please submit chapter establishment form. Contact: info@ieomsociety.org.

Suggested Student Chapter Activities

Workshops and Seminars
Industry Speakers
Plant Tours
Communication Development

Career Development
Networking
Poster and Paper Contest
Fund Raising

Membership Building
Community Outreach
Alumni Relations
Leadership and Teambuilding Skills

Join IEOM Society - Be a Professional or Student Member

MEMBERSHIP BENEFITS
- Be part of the Diverse Industrial Engineering (IE) and Operations Management (OM) Profession
- Professional Development
- Access IEOM Publications

- IEOM Newsletters
- Access IEOM Online Resources
- Networking Opportunities
- Conferences and Seminars
- Career and Leadership Development

IEOM Professional Chapters

AFRICA
- IEOM Society of Botswana
- IEOM Society of Cameroon
- IEOM Society of Ethiopia
- IEOM Society of Ghana
- IEOM Society of Kenya
- IEOM Society of Libya
- IEOM Society of Mauritius
- IEOM Society of Morocco
- IEOM Society of Namibia
- IEOM Society of Nigeria
- IEOM Society of Tunisia
- IEOM Society of Zimbabwe

ASIA and AUSTRALIA
- IEOM Society of Australia
- IEOM Society of Bangladesh
- IEOM Society of Bhutan
- IEOM Society of Indonesia
- IEOM Society of Kazakhstan
- IEOM Society of Malaysia
- IEOM Society of Pakistan
- IEOM Society of Sri Lanka
- IEOM Society of Uzbekistan

MIDDLE EAST
- IEOM Society of Iran
- IEOM Society of Iraq
- IEOM Society of Jordan
- IEOM Society of Lebanon
- IEOM Society of Qatar
- IEOM Society of Saudi Arabia
- IEOM Society of UAE
- IEOM Society of Yemen

NORTH AMERICA
- IEOM Society of Michigan
- IEOM Society of New York
- IEOM Society of Oregon
- IEOM Society of Washington DC

SOUTH AMERICA
- IEOM Society of Colombia
- IEOM Society of Peru

CENTRAL AMERICA AND CARIBBEAN
- IEOM Society of Costa Rica
- IEOM Society of Honduras

International Journal of Industrial Engineering and Operations Management (IJIEOM)

www.ieomsociety.org/journals/

Scholar One Manuscript Central Submission Upcoming

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http://www.joseagarzareyes.com
1st South American IEOM Conference (Bogota, October 25-26, 2017)

1st UK IEOM Symposium (Bristol, July 24-25, 2017)

High School & Middle School STEM Poster Competition Photos, San Jose & Detroit 2017
IEOM Bandung

IEOM Society Activities

March 6-8, 2018


IEOM 2016 Malaysia Conference Photos (March 8-10, 2016)

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IEOM 2016 Detroit Conference Photos (September 23-25, 2016)

IEOM Women in Industry and Academia Forum
Website: http://ieomsociety.org/ieom/women-in-industry-and-academia/
Awards: www.ieomsociety.org/awards/

IEOM Student and Professional Chapter Activities: www.ieomsociety.org/chapters/

Effat University, Jeddah, Saudi Arabia

Sudan University of Science and Technology

Zagazig University, Egypt

University of New Brunswick at Fredericton, Canada

King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia

IEOM in Costa Rica

Prof. Eldon Caldwell, Chairman of Industrial Engineering Dept., Univ. of Costa Rica

Faculty Advisor
Promoting IEOM Society at RobotiFEST UCR 2017
Guru Nanak Dev Engineering College, Ludhiana, Punjab, India

University of Johannesburg, South Africa

Government College University Faisalabad (GCUF), Pakistan
IEOM Student Chapter at Universiti Tun Hussein Onn Malaysia (UTHM)

Khulna University, Bangladesh

IEOM Student Chapter at Institut Teknologi Bandung (ITB)
IEOM Student Chapter at Bay Area (San Francisco & San Jose)

IEOM Washington DC Metro Area Chapter (Washington DC, Virginia and Maryland)

IEOM Michigan Chapter

IEOM Partner Events

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<th>Event</th>
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<tr>
<td>INFORMS Annual Meeting 2018</td>
<td>November 4 - 7, 2018</td>
<td>Phoenix, Arizona, USA</td>
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<td>IFEES - WEEF-GEDC 2018</td>
<td>November 11 - 15, 2018</td>
<td>Albuquerque, New Mexico</td>
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IEOM STEM Poster Competitions for K-12 Students

Website: [http://ieomsociety.org/ieom/stem/](http://ieomsociety.org/ieom/stem/)

The IEOM Society International is organizing the IEOM STEM Poster Competition for K-12 students in Detroit, Michigan and San Jose California for 2018.

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## IEOM Student Chapters around Globe

### Bangladesh
1. Ahsanullah University of Science & Technology, Dhaka
2. Islamic University of Technology (IUT)
3. Jessore University of Science and Technology (JUST)
4. Khulna University
5. Khulna University of Engineering and Technology (KUET)

### Botswana
6. University of Botswana

### Canada
7. University of New Brunswick at Fredericton

### Colombia
8. Fundación Univ. Tecnológico Comfenalco, Cartagena, Bolívar
9. University of Rosario, Bogota
10. University of Quindío
11. Universidad de San Buenaventura, Cali, Valle

### Costa Rica
12. University of Costa Rica

### Czech Republic
13. University of West Bohemia, Pilsen

### Ecuador
14. Technical University of Ambato

### Egypt
15. Zagazig University

### Finland
16. University of Vaasa

### France
17. Lorraine University, Metz

### Greece
18. Technological Education Institute (TEI), Thessaly, Larissa

### India
19. College of Engineering Guindy (Anna University), Chennai
21. Pandit Dendayal Petroleum University, Ahmedabad, Gujrat
22. P.D.A. College of Engineering, Gulbarga, Karnataka, India
23. Vellore Institute of Technology
24. Vidya Jyothi Institute of Technology, Hyderabad

### Indonesia
25. Bina Nusantara University (Binus)
26. Institut Teknologi Bandung (ITB)
27. Institut Teknologi Sepuluh Nopember (ITS)
28. Sampoerna University, Jakarta
29. University of Indonesia
30. Universitas Sebelas Maret (UNS), Surakarta

### Iran
31. University of Elyvanekey

### Iraq
32. Babylon University

### Kenya
33. Kenyatta University, Nairobi

### Malaysia
34. Universiti Putra Malaysia (UPM)
35. Universiti Teknologi Malaysia
36. Universiti Tun Hussein Onn Malaysia
37. Universiti Utara Malaysia

### Morocco
38. Akhawayn University
39. Ecole Mohammadia d’Ingénieurs (EMI), Mohammed V University

### Namibia
40. National University of Science and Technology in Windhoek

### Nepal
41. Kathmandu University
42. Tribhuvan University

### Oman
43. Sultan Qaboos University

### Pakistan
44. Dawood University of Engineering and Tech., Karachi
45. Government College University Faisalabad
46. Mehran University of Engineering and Technology, Jamshoro

### Peru
47. National University of San Antonio Abad, Cusco, Peru

### Philippines
48. LPU Laguna

### Qatar
49. Qatar University

### Saudi Arabia
50. Alfaisal University
51. Efaat University
52. King Abdulaziz University (KAU)
53. King Fahd University of Petroleum and Minerals (KFUPM)
54. King Saud University (KSU)
55. Prince Sultan University

### Sudan
56. Sudan University of Science and Technology, Khartoum

### UK
57. University of Derby
58. University of the West of England (UWE), Bristol

### USA
59. Central Connecticut State University
60. Eastern Michigan University
61. Lawrence Technological University, Michigan, USA

### South Africa
62. University of Johannesburg, South Africa

### Sri Lanka
63. University of Kelaniya
64. University of Peradeniya

### High School / Middle School Student Chapter
65. Bay Area of San Francisco & San Jose, California, USA
Upcoming Events

2nd IEOM European Conference
Industrial Engineering & Operations Management
Paris, France, July 26-27, 2018
Venue: IESEG’s Paris Campus, La Défense
www.ieomsociety.org/paris2018/

3rd North American International Conference on
Industrial Engineering and Operations Management
Washington DC, USA, Sept. 27-29, 2018
Venue: University of the District of Columbia
www.ieomsociety.org/dc2018/

1st African Int. Conference on
Industrial Engineering and Operations Management
Pretoria/Johannesburg, South Africa
October 29 - November 1, 2018
www.ieomsociety.org/southafrica2018/

9th IEOM International Conference
JW Marriot Hotel, Bangkok, Thailand, March 5-7, 2019
Conference Website: www.ieomsociety.org/ieom2019/