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IEOM Society

Industrial Engineering and Operations Management Society International

IEOM Society International, 21415 Civic Center Dr., Suite 217, Southfield, Michigan 48076, USA
Phone: 1-248-450-5660, Email: info@ieomsociety.org
Greetings Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to Rome, Italy and the Fourth European Conference on Industrial Engineering and Operations Management, August 2-5, 2021. Host is Faculty of Civil and Industrial Engineering – Sapienza - University of Rome. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of significant trends in industrial engineering and operations management. The theme is "Road to Resilient Manufacturing and Logistics".

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

1. Di Paola Galloni Jean Luc, VALEO; EXTRAC Operational Vice-Chairman
2. Dr. Tomohiko Sakao, Professor of Sustainable Product/Service Systems, Linköping University, Sweden
3. Dr. Dominik Matt, Professor of Production Systems Technologies Faculty of Science and Technology, Free University of Bozen-Bolzano, Italy. Director, Research Center Fraunhofer Italia in Bolzano
4. Dr. Donald Huisngh, Professor of Sustainable Development, University of Tennessee, Knoxville, USA
5. Dr. Ji Hong Yan, Professor in Industrial Engineering and Deputy Dean of School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China
6. Dr. Joseph Sarkis, Foisie Business School, Worcester Polytechnic Institute, Worcester, MA, USA
7. Professor George Boustras, Editor-in-Chief, Safety Science and Director at CERIDES - Excellence in Innovation and Technology, European University Cyprus
8. Corrado La Forgia, VP Operations Manager and Managing Director, BOSCH VHIT – CR, Offanengo, Lombardy, Italy
9. Dr. Fatma H. Ashour, Director of the Center for Environmental Hazard Mitigation and Environmental Research and Studies, Cairo University, Egypt
10. Franco Megali, VP and CEO Italy, Israel and Greece, Siemens Digital Industries Software
11. Giovanni Esposito, Director of Innovation, Argo Tractors, Fabbrico RE, Italy
12. Dr. Saurin Tarcisio Abreu, Associate Professor, Industrial Engineering Department, Universidade Federal do Rio Grande do Sul, Rio, Brazil

The 24th IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The Industry Solutions and Industry 4.0 will showcase industry best practices and intelligent integration. IEOM Global Supply Chain and Logistics will address the global logistics challenges due to the worldwide pandemic.

The IEOM Society expresses our deep appreciation to the conference organizing committee, organization partners, authors, and keynote speakers to support this event. Global engineering education speakers, global supply chain speakers, industry solutions speakers, and the local committee make this unique, the Fourth European IEOM Conference an overwhelmingly successful event.

Sapienza - University of Rome, the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will have a wonderful experience at the conference.

Enjoy the conference!
Conference Program

August 2, 2021 (Monday)
8:00 – 9:45 am  Parallel Sessions – Zoom Meeting Rooms: 1-5
10:00 – 11:45 am Parallel Sessions – Zoom Meeting Rooms: 1-5
12:00 – 1:45 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5
2:00 – 3:45 pm CATME Workshop - Managing Student Teams, Dr. Matthew W. Ohland, Dale and Suzi Gallagher Professor, School of Engineering Education, Purdue University, West Lafayette, Indiana, USA - Room 6

August 3, 2021 (Tuesday)
8:00 – 9:45 am  Parallel Sessions – Zoom Meeting Rooms: 1-5
10:00 – 11:45 am Parallel Sessions – Zoom Meeting Rooms: 1-5
12:00 – 1:45 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5
2:00 – 2:20 pm  Welcome Address: Prof. Livio De Santoli, Deputy Rector for Sustainability, Sapienza – University of Rome, Rome, Italy- Room 1
2:20 – 3:00 pm  Keynote I (Opening Keynote): Di Paola Galloni Jean Luc, VALEO; EXTRAC Operational Vice-Chairman - Room 1
3:00 – 3:40 pm  Keynote II: Dr. Tomohiko Sakao, Professor of Sustainable Product/Service Systems, Linköping University, Sweden - Room 1
3:40 – 4:20 pm  Keynote III: Dr. Dominik Matt, Professor of Production Systems Technologies Faculty of Science and Technology, Free University of Bozen-Bolzano, Italy. Director, Research Center Fraunhofer Italia in Bolzano - Room 1
4:20 – 5:00 pm  Keynote IV: Dr. Donald Huisingh, Professor of Sustainable Development, University of Tennessee, Knoxville, USA - Room 1
5:15 – 7:00 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5

August 4, 2021 (Wednesday)
8:00 – 9:45 am  Parallel Sessions – Zoom Meeting Rooms: 1-5
10:00 – 11:45 am Parallel Sessions – Zoom Meeting Rooms: 1-5
12:00 – 1:45 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5
2:00 – 2:20 pm  Welcome Address: - Room 1
2:20 – 3:00 pm  Keynote V: Dr. Jihong Yan, Professor in Industrial Engineering and Deputy Dean of School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China - Room 1
3:00 – 3:40 pm  Keynote VI: Dr. Joseph Sarkis, Foisie Business School, Worcester Polytechnic Institute, Worcester, MA, USA - Room 1
3:40 – 4:20 pm  Keynote VII: Professor George Boustras, Editor-in-Chief, Safety Science and Director at CERIDES - Excellence in Innovation and Technology, European University Cyprus - Room 1
4:20 – 5:00 pm  Keynote VIII: Corrado La Forgia, VP Operations Manager and Managing Director, BOSCH VHIT – CR, Offanengo, Lombardy, Italy - Room 1
5:15 – 7:00 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5

August 5, 2021 (Thursday)
8:00 – 9:45 am  Parallel Sessions – Zoom Meeting Rooms: 1-5
10:00 – 11:45 am Parallel Sessions – Zoom Meeting Rooms: 1-5
12:00 – 1:45 pm  Parallel Sessions – Zoom Meeting Rooms: 1-5
2:00 – 2:20 pm  Conference Chairs’ Remarks – Room 1
2:20 – 3:00 pm  Keynote IX: Dr. Fatma H. Ashour, Director of the Center for Environmental Hazard Mitigation and Environmental Research and Studies, Cairo University, Egypt - Room 1
3:00 – 3:40 pm  Keynote X: Franco Megali, VP and CEO Italy, Israel and Greece, Siemens Digital Industries Software
3:40 – 4:20 pm  Keynote XI: Giovanni Esposito, Director of Innovation, Argo Tractors, Fabbrico RE, Italy - Room 1
4:20 – 5:00 pm  Keynote XII: Dr. Saurin Tarcisio Abreu, Associate Professor, Industrial Engineering Department, Universidade Federal do Rio Grande do Sul, Rio, Brazil - Room 1
5:00 – 7:00 pm  Conference Awards Ceremony – Virtual
Keynote Speakers

August 3, 2021 (Tuesday)

2:00 – 2:20 pm, Tuesday, August 3, 2021 – Welcome Address

Prof. Livio De Santoli
Deputy Rector for Sustainability
Sapienza – University of Rome
Rome, Italy

Prof. Livio de Santoli
Department of Astronautics Electric and Energy Engineering (DIAEE)
Sapienza University of Rome (Italy)

- Full Professor in HVAC Systems in Buildings and Energy Management (School of Engineering) at Sapienza University of Rome
- Deputy Rector of Sapienza University of Rome for Sustainability and Energy Policies
- Energy Manager at Sapienza University of Rome
- President of Master Degree in Energy Engineering, Sapienza University of Rome
- Past Dean of School of Architecture “Valle Giulia” 2009-2010
- President of ATI Thermotechnical Italian Association
- President of Coordinamento FREE (Renewable Energy Sources and Energy Efficiency Associations)
- PastPresident of AiCARR, HVAC National Association, 2014-2017
- Chairman of WG on Energy Efficiency for Italian Authority of Energy Stakeholders Panel
- Director of Master Course “Strategy Energy Management Systems”
- Professor of “HVAC in Historical Buildings” at High post-graduated School in Restoration of Historical Buildings
- Member of International Advisory Board at Building Services Engineering Research & Technology (UK)
- Author of some 250 publications about Energy, Indoor Environment Quality, Renewables, HVAC Systems, Applied Thermodynamics and 17 books (academic and informative)
- Chairman of a national research WG within a PRIN project funded by the Italian Ministry of University and research (involving 12 Italian Universities), to realize the Italian network on “energy refurbishment of existing building stock in NZEB vision”
- Consultant of Italian Ministeries (MiSE, MATTM, MIBACT) and of most relevant Institution on the topic of energy policies
- Energy Consulting of many important Energy Plans in urban and suburban scale
- Winner of a number of Awards in the field of energy

2:20 – 3:00 pm, Tuesday, August 3, 2021 – Keynote I – Opening Keynote

Dr. Jean-Luc di Paola-Galloni
Valeo Group Corporate Vice-President
Sustainable Development and External Affairs
Paris, France

Jean-Luc di Paola-Galloni is Valeo Group Corporate Vice-President for Sustainability and External Affairs since October 2010. He was previously CEO’s delegate, member of the executive committee at Valeo since December 2006. He joined ERTRAC as Vice-Chairman in July 2008 representing the automotive suppliers’ industry.

In this respect, he’s also a member of the strategic group advising the board of CLEPA (European Association of Suppliers) and takes part to the electro-mobility working group within this association.

His commitment to establish fair relationships between the automotive industry and international bodies, with a multi-stakeholder approach is also reflected by his commitment to the advisory board of the International Forum of OECD Transport Ministers from the beginning (2008) and to the Global Council of Automotive Industry of the World Economic Forum since its creation (2010). Since January 2010, Valeo Board member to the Modernization Fund of Automotive Suppliers (belonging to French Sovereign Fund – FSI).

He was previously advisor to the CEO of Gaz de France (2002-2004) and has a research experience in the field of defense, international relations and strategic affairs at Harvard University (Cambridge, Massachusetts), Ecole Normale Superieure and Institut des Hautes Etudes de Defense Nationale (in France). He holds several degrees in geography, urban planning, humanities. He had teaching positions at Boston University, Preparatory Classes to French Grandes Ecoles, Jean Monnet European studies center of Universita’ di Trento (Italy), Tamkang University in Taiwan.

3:00 – 3:40 pm, Tuesday, August 3, 2021 – Keynote II
Dr. Tomohiko Sakao  
**Professor of Sustainable Product/Service Systems**  
Linköping University  
Sweden

What, why and how of PSS (product/service system) for environmental sustainability?

Tomohiko Sakao is Professor in Ecodesign and Integrated Product Service Engineering at the Division of Environmental Technology and Management, Department of Management and Engineering, at Linköping University (LiU) in Linköping, Sweden. He stayed at the Institute for Product Development and Machine Elements at the Darmstadt University of Technology in Darmstadt, Germany between 2005 and 2007.

Dr. Sakao joined LiU as the Swedish engineers’ (Sveriges Ingenjörer) Environmental Professor in 2007 and have been active in both carrying out projects with industry and publishing academic articles. He is one of the scholars that have published highest numbers of relevant articles in the area of product/service system worldwide, which is clear evidence of his academic influence and expertise in the field.

Since 2016, he has been elected as Associate Member of CIRP (The International Academy for Production Engineering).

After studying at the University of Tokyo, Dr. Sakao worked at Mitsubishi Research Inst., Inc. in Tokyo for 8 full years, where he gained valuable industry experience before beginning his academic career.

3:40 – 4:20 pm, Tuesday, August 3, 2021 – **Keynote III**

Dr. Dominik Matt  
**Full Professor of Production Systems and Technologies**  
Faculty of Science and Technology  
Free University of Bozen-Bolzano  
Bolzano, Italy

Prof. Dr.-Ing. Dominik Matt holds the Chair for Production Systems and Technologies and heads the research department ‘Industrial Engineering & Automation (IEA)’ at the Faculty of Science and Technology at the Free University of Bozen-Bolzano. Moreover, Prof. Matt is the Director of the Research Center Fraunhofer Italia in Bolzano. He has authored more than 250 scientific and technical papers in journals and conference proceedings and is member of numerous national and international scientific organizations and committees (e.g.: AITeM – Associazione Italiana di Tecnologia Meccanica | WGAB – Academic Society for Work and Industrial Organization). Since 2020 Prof. Matt is also member of the renowned German National Academy of Science and Engineering “acatech”

4:20 – 5:00 pm, Tuesday, August 3, 2021 – **Keynote IV**

Dr. Donald Huisingh  
**Professor of Sustainable Development**  
University of Tennessee  
Knoxville, TN, USA

Donald Huisingh is skilled in interdisciplinary education and holistic approaches to defining and solving society’s problems to effective and equitable progress to be made toward Sustainable Societies. He is skilled in course and curriculum development and curriculum evaluation in topics ranging from Sustainable Development, in the broadest dimensions, to more detailed issues such as: toxic use reduction, life cycle thinking, industrial ecology, pollution prevention, & eco-efficiency. He also addresses issues such as the philosophical, ethical, and political implications of improper eco-system management, human population growth and human capacity building. Donald Huisingh is the author or co-author of more than 300 professional publications, audio-video productions and simulations.

He is the founder and Editor-in-Chief of the JOURNAL OF CLEANER PRODUCTION and co-founder of “The International Journal of Sustainability in Higher Education”. Donald Huisingh was Awarded The Most Valuable Contributions to Pollution Prevention Award in the U. S., in 2008. Awarded the “International Environmental Leadership,” Award by the Banksia Environmental Foundation of Australia in September 2000. Awarded North Carolina State Government’s Public Service Award (Spring 1982), among numerous other awards and honors.

August 4, 2021 (Wednesday)

2:00 – 2:20 pm, Wednesday, August 2, 2021 – Conference Co-Chair Remarks

2:20 – 3:00 pm, August 4, 2021, Wednesday – **Keynote V**
Jihong Yan, Ph.D.
Professor in Industrial Engineering
Deputy Dean of School of Mechatronics Engineering
Head of intelligent Manufacturing Scientific Research Team
Harbin Institute of Technology
Harbin, China

An IoT based solution for cyber-physical fusion in shop-floor

Dr. Jihong Yan is a Professor (since 2005) in Industrial Engineering at Harbin Institute of Technology (HIT), she is also the deputy dean of School of Mechatronics Engineering and head of intelligent manufacturing scientific research team at HIT. She received her PhD from Harbin Institute of Technology in 1999. Then she joined Tsinghua University (from 1999 to 2001), the University of Wisconsin (from 2001 to 2004) and Pennsylvania State University (from 2004 to 2005) as a postdoctoral researcher. Dr. Yan is the director of National High-end Equipment Manufacturing Virtual and Simulation Experiment Teaching Center, head of Research Oriented Teaching Innovation Team for High-end Equipment Manufacturing of the Ministry of Industry and Information Technology of China, vice chairman of Production System Special Committee of Chinese Mechanical Engineering Society, and chairman of Industrial Engineering Professional Committee of the Mechanical Engineering Society of Heilongjiang Province.

Her main area of research is industrial big data, sustainable manufacturing, intelligent logistics and advanced maintenance of machinery. As a PI, Dr. Yan has worked on and accomplished 15 projects in intelligent manufacturing and sustainability related areas, funded by the NSF of China(NSFC), NSF-NSFC joint-project funding, National key R&D plan project funding, National High-tech project funding, National “863” project funding, EU EPSRC project funding, High-tech funding from industries, and so on. She has authored and co-authored over 100 research papers and published 3 books, two papers were ranked ESI high cited articles. Currently there are 17 professors and engineers with her research team, the team dedicates to theoretical research and system implementation in the fields of intelligent operation optimization theory and methods of manufacturing systems, manufacturing IoT technologies and devices, and equipment health monitoring, etc.

3:00 – 3:40 pm, August 4, 2021, Wednesday – Keynote VI

Dr. Joseph Sarkis
Professor of Management
Foisie Business School
Worcester Polytechnic Institute (WPI)
Worcester, MA, USA

Joseph Sarkis is a Professor of Management within the Foisie Business School at Worcester Polytechnic Institute. He earned his Ph.D. from the University of Buffalo. His research and teaching interests include Environmental Sustainability, Technology, Operations and Supply Chain Management. He has authored over 450 publications in a wide variety of outlets. He is currently Editor-in-Chief of IEEE Engineering Management Review and Associate Editor for the journal Resources, Conservation and Recycling on the topic of sustainable supply chains. His editorial positions cover many leading journals in Operations, Transportation, Supply Chain, and Sustainability Management. Joe has been recognized as a Highly Cited Researcher for each year from 2015-2020 by Thomson-Reuters/Clarivate Analytics (Web- of-Science). He is an AT&T Industrial Ecology Fellow and has served as a research scholar at universities throughout the world; he currently holds a position of International Scholar within the Hanken School of Economics’ HUMLOG Institute. He is a coordinator within the Circular Economy Working Group. Joe is also an international program coordinator for the Greening of Industry Network (GIN) along with the Greening of Industry Networks book series co-editor for Springer-Nature Publishers.

3:40 – 4:20 pm, August 4, 2021, Wednesday – Keynote VII

Prof. George Boustras
Editor-in-Chief, Safety Science
Director at CERIDES – Excellence in Innovation and Technology
Professor in Risk Assessment
European University Cyprus
Nicosia, Cyprus

George was born in Athens in May 1973. George is a Visiting Researcher at the National Observatory of Athens, Professor in Risk Assessment at European University Cyprus, Director of the Centre of Risk and Decision Sciences (CERIDES – Excellence in Innovation and Technology) and Advisor for Natural Catastrophes to HE the President of the Republic of Cyprus, Mr Nikos Anastasiades. He was the 5th elected Dean of the Ioannis Gregoriou School of Business Administration for two consecutive terms.

George is a PhD in Probabilistic Fire Risk Assessment from CFES at Kingston University London (2003), he was Honorary Research Fellow at CPSE at Imperial College London (2003 - 2005), and KTP Research Fellow at FSEG at the University of Greenwich (2009).

He sat at the Management Committee of Secure Societies - Protecting Freedom and Security of Europe and its citizens of “HORIZON 2020” for 7 years. George was a Member of the Socio Economic Assessment Committee (SEAC) of the European Chemicals Agency (ECHA) for 6 years.
Among other public duties, he was appointed by the Ministerial Council of the Republic of Cyprus to Head the Special Task Force that overlooked the modernization of the Fire Services. He was hired by World Bank to contribute to the modernisation of licensing services provided by the Fire Service of the Hellenic Republic. The President of the Republic of Cyprus appointed him, as Vice President in the Energy Strategy Council. He consulted the Ministry of Defence of the Republic of Cyprus in the Risk Assessment of Unexploded Ordnance as part of Gas Exploration.

George is Editor-in-Chief of Safety Science (Elsevier, IF 4.105) and Member of the Editorial Board of Fire Technology (Springer Nature), the International Journal of Emergency Management and International Journal of Critical Infrastructure (both Inderscience). He (co-) supervises 7 PhD students; 5 of his students are now PhD’s.

4:20 – 5:00 pm, August 4, 2021, Wednesday – Keynote VIII

Corrado La Forgia  
VP Operations Manager and Managing Director  
BOSCH VHit – CR  
Offanengo, Lombardy, Italy  

Title: “Digitalization of Production Processes”

How can we let the machines “talking”, transforming data in precious information. How can we use artificial intelligence and how can we digitalize also old equipment (digital revamping)

Born in 1965, Mr. la Forgia Corrado Felice graduated at University in Bari as Mechanical Engineer and he started his career as manufacturing manager in companies like ANSALDO, OSRAM, MAGNETI MARELLI and BOSCH Group, for which he has been working for 12 years.

He had working experiences abroad (Germany and Austria) and he has been working as Managing Director and Operational Manager in Bosch plant in Crema (manufacturing plant for components in automotive market) for more than 7 years.

He is also Vice President and Deputy for Innovation in regional Confindustria Cremona (Industrial Association) and a member of National Task Force of Federmeccanica (Mechanical Companies Association) on Industry 4.0 topic.

He worked together with Economics Department of University in Genova on digital innovation. Interested in innovation issues and in particular in enabler technologies of Industry 4.0, he is the author, together with Nicola Intini, Luca Beltrametti e Nino Guarnacci, of the book: ‘La Fabbrica Connessa – La manifattura italiana (attra)verso Industria 4’ (Edizioni Angelo Guerini e Associati S.r.l).

In 2019 his second book ‘Ada, Alan and the Mysteries of The IoT’, written with Nicola Intini, Raffaella Misciosca, Sabrina De Santis and Pierpaolo Pontrandolfo (Angelo Guerini Editions and Associates S.r.l.) was published.

August 5, 2020 (Thursday)

2:00 – 2:20 pm, Thursday, August 5, 2021 – Conference Co-Chair Remarks

2:20 – 3:00 pm, August 5, 2021, Thursday – Keynote IX

Dr. Fatma Ashour  
Professor and Former Head  
Chemical Engineering Department  
Director of the Center of Hazard Mitigation, Environmental Studies and Research  
Cairo University  
Egypt  

Dr. Ashour has graduated originally with a B.Sc. with honours and completed her M.Sc. and PhD in the Chemical Engineering Department from Cairo University. As an employment history, Dr. Ashour worked in the Faculty of Engineering from a Teaching Assistant to the Head of the Chemical Engineering Department in Egypt. Research areas of Dr. Ashour cover a wide range of fields ranging from Petroleum Refining and processing to experimental conversion processes of biomass into valuable chemicals and liquid fuels. On international level, Dr. Ashour has scientific collaborations with international research institutions: Rovira I Virgili in Spain, University of Kassel in Germany, Wits University in South Africa, Lund University in Sweden, Sapienza University Rome in Italy. Dr. Ashour is a member of the Research Council for Petroleum & Mineral Wealth (Petroleum Committee) – The Egyptian Academy of Scientific Research and Technology, Member of the board of “L’Association des Ingénieurs Francophones d’Egypte” AIFE and Président of the “Réseau Méditerranéen des Ecoles d’Ingénieurs” RMEI. Latest research publications:

• MS El-Sawy, SA Hanafi, F Ashour, TM Aboul-Fotouh, Co-hydroprocessing and hydrocracking of alternative feed mixture (vacuum gas oil/waste lubricating oil/waste cooking oil) with the aim of producing high quality fuels, Fuel 269, 117437,2020, ELSEVIER.
• MM Naeem, EG Al-Sakkari, DC Boffito, MA Gadalla, FH Ashour, One-pot conversion of highly acidic waste cooking oil into biodiesel over a novel bio-based bi-functional catalyst, Fuel 283, 118914, 2021, ELSEVIER

3:00 – 3:40 pm, August 5, 2021, Thursday – Keynote X
Franco Megali
VP and CEO Italy, Israel and Greece
Siemens Digital Industries Software
Milan, Lombardy, Italy

Presentation Title: Siemens Capabilities on the Digital Journey and Transformation

Franco Megali has been in the manufacturing market for over 35 years. He started his career in Brescia at Comser, Finbrescia group. Then he moved to Milan, where he worked at Intergraph Italia. In 1991 he joined McDonnell Douglas Information System which became EDS Unigraphics and UGS and finally Siemens Digital Industry Software after the acquisition of Siemens in 2007, with the current role of Italy CEO. Thanks to its profound knowledge of products and processes in the manufacturing industry, he achieved excellent results in the most important Italian manufacturing industries, in particular the Automotive & Transportation, Aerospace & Defense and Machinery sectors. Graduate in Mechanical Engineering at the University of Brescia, Franco Megali holds a Master in Business Administration (MBA) from Bocconi University in Milan in 1990.

3:40 – 4:20 pm, August 5, 2021, Thursday – Keynote XI
Giovanni Esposito
Director of Innovation
Argo Tractors
Fabbrico RE, Italy

Tractor Technology: Agriculture 4.0 towards more sustainable, safe and automated vehicles

Master’s Degree in Electronic Engineering. Early in his career he worked for the Philips company; since 1987 he has been involved in the design of agricultural tractors with responsibility for managing international project groups, dedicated to the development of advanced mechatronic vehicles. Member of the European Agricultural Machinery Industry Association (CEMA) Technical Board. Argo Tractors is a company specialized in the production of tractors, with 4 production plants in Italy. It markets its products under the Landini, McCormick, Valpadana brands.

4:20 – 5:00 pm, August 5, 2021, Thursday – Keynote XII
Dr. Tarcisio Abreu Saurin
Associate Professor
Industrial Engineering Department
Universidade Federal do Rio Grande do Sul
Brazil

Tarcisio A. Saurin is an Associate Professor at the Industrial Engineering Department of the Federal University of Rio Grande do Sul (Brazil). He has a PhD in Industrial Engineering (2002), a MS in Construction Management (1997), and a BS in Civil Engineering (1994). He was a visiting professor at the Australian Institute of Health Innovation at Macquarie University (2019/19) and at the University of Salford, UK (2012). His main research interests are related to the modelling and management of complex socio-technical systems, resilience engineering, safety management, lean production, and performance measurement. He has carried out research and consulting projects on these topics in healthcare, construction, electricity distribution, and manufacturing. He has also supervised 68 graduate students (55 MS and 13 PhD) and authored a number of journal papers, book chapters, and conference papers on these topics – H-index scopus: 23. He is also a co-editor of two books and an active member of scientific associations such as the Resilience Engineering Association, Resilient Health Care Society, and International Group for Lean Construction. He is involved in a number of international collaborations with universities from Europe, Australia, and North America.
FOR THAT PLUMBER WHO SCHEDULES BACK-TO-BACK-TO-BACK-TO-BACK-CALLS.

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Faculty of Civil and Industrial Engineering
Sapienza-University of Rome
Rome, Italy

Prof. Massimo Tronci
Department of Mechanical and Aerospace Engineering
Faculty of Civil and Industrial Engineering
Sapienza – University of Rome
Rome, Italy

Dr. Patrick Dallasega
Researcher – Assistant Professor
Industrial Engineering and Automation, Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen, Bolzano, Italy

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University of Sannio, Benevento, Italy

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Southfield, Michigan, USA

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Prof. Vikas Kumar, Director of Research and Scholarship and Professor of Operations and Supply Chain Management, Bristol Business School, University of the West of England, UK

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Christoph Szemtrak, University of Applied Sciences Koblenz, Faculty of Operations Management, Koblenz, Germany

Automation and Control
Raúl Ramírez López, División de Estudios de Posgrado e Investigación, Instituto Tecnológico de Querétaro, Mexico

Biomedical Devices and Systems
E.O. Ige, Department of Biomedical Engineering, Afe Babalola University, Ado Ekiti, Nigeria

Business Analytics
Ulf Cebeci, Department of Industrial Engineering, Istanbul Technical University, Macka, 34367, Turkey

Business Management
Salma Elzarka, College of Management and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt

Case Studies
Decreee Anne A. Haboy, School of Industrial Engineering and Engineering Management, Mapua University, Philippines

Construction Management
Raffiu Dimeji Seidu, School of the Built Environment and Architecture, London South Bank University, 103 Borough Road, London, SE1 0AA, UK

Cybersecurity
Francesco Simone, Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Via Eudossiana, 18 – 00184 Rome, Italy

Data Analytics and Big Data
Dr. Onur Doğan, Department of Industrial Engineering, İzmit Bakırçay University, Turkey

Decision Sciences
Adel El Omri, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

Defense
Mohammed Maharoof, Engineering Management & Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University (HBKU), Education City, Qatar

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

Digital Manufacturing
Mohamed Gamal, Production Engineering Department, Faculty of Technology, Nahda University, Bani-Suef 62521, Egypt

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Marvin I. Noroña, School of Industrial Engineering & Engineering Management, Mapúa University, Intramuros, Philippines

Energy
Ahmed M. Attia, Department of Systems Engineering, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

Energy and Resource Efficiency

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Raid Al-Aomar, Master of Engineering Management, College of Engineering, Abu Dhabi University, Abu Dhabi, UAE

**Engineering Economy**  
Carlos Hernández, Universidad Austral de Chile

**Engineering Education**  
Dr. Prof., Irinya Shvets, Vice-Rector for International Relations, Donetsk National Technical University, Pokrovs, 85300 Ukraine

**Engineering Management**  
Andile Mgidwa, Faculty of Engineering and the Built Environment University of Johannesburg, Johannesburg, South Africa

**Entrepreneurship and Innovation**  
Mario Chauca, Professional School of Mechanic and Electric Engineering, National Technological University of South

**Environmental Engineering**  
Sambasivam, Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

**ERP**  
Anitha Ravikumar, University of Technology and Applied sciences (HCT), Muscat, UAE

**Facilities Planning and Layout**  
Marlene Brás, Department of Economics, Management, Industrial Engineering and Tourism, University of Aveiro, Aveiro, Portugal

**Healthcare Systems**  
Susana Duarte, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal

**Human Factors and Ergonomics**  
Dr. Mario Fargnoli, Sapienza - University of Rome

**Industrial Management**  
Fahmi Ramadhan Putra, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

**Industry 4.0**  
Christoph Szedlak, Konrad-Zuse-Str. 1, Koblenz, Germany

**Industry Solutions**  
Nathaniel Viandy Dondokambe, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

**Information Technology and Information Systems**  
Joel De Goma, School of Information Technology Department, Computer Science, Mapúa University, Makati, Philippines

**Inventory Control**  
Youssef Boualksil, UAE University Al Ain, Abu Dhabi, United Arab Emirates

**IoT**  
Pratima Verma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC

**Knowledge Management**  
Sharmine Akther Liza, Ahsanullah University of Science & Technology, Dhaka, Bangladesh

**Lean**  
Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

**Logistics**  
Mahinthorn Pothiwan, Rajabhat Mahasarakham University, Thailand

**Machine Learning**  
João Basto, INESC TEC – Technology and Science, Porto, Portugal

**Manufacturing**  
Frederik Desplentere, Department of Materials Engineering, ProPoLiS research group, KU Leuven Bruges Campus, Bruges, Belgium

**Mathematical Sciences**  
Md Haider Ali Biswas, Khulna University, Bangladesh

**Mechatronics and Predictive Machinery Degradation**  
Shankar N V S, Vignan's Institute of Information Technology, India

**Modeling and Simulation**  
Drist Ouaaz, Equipe Analyse des systèmes hydrauliques (EASH), Ecole Mohammadia d’Ingénieurs, Mohammed V University of Rabat, Morocco

**Operations Management**  
Irina V. Burlakova, International Economy and Management Dept. Ural Federal University named after the first President of Russia B.N. Yeltsin, 19 Mira St., Ekaterinburg, 620002, Russia

**Operations Research**  
Dr. Adin Delgoshaei, Industrial Engineering Department, Kharazmi University, Tehran, Iran

**Product Design and Development**  
Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, viale Risorgimento 2, 40136 Bologna, Italy

**Product Lifecycle Management (PLM)**  
Dr. Gian Maria Santi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

**Production Engineering**  
Jai Kumar Drave, Department of Production Engineering, National Institute of Technology, Tiruchirappalli, India

**Production Planning and Control**  
Francisco Reis, Department of Mechanical Engineering, School of Engineering, Polytechnic of Porto, Porto, Portugal

**Project Management**  
Mohamed Ebrahim Helal Ebrahim AL-Zaabi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

**Quality Control**  
Fazal Abbas, Institute of Quality and Technology Management, University of the Punjab Lahore, 54000, Pakistan

**Reliability and Maintenance**  
Ihssen ABDELMOMEN, Doctorante en Mécanique des Matériaux, Laboratoire d’Etude des Microstructures et de Mécanique des Matériaux (LEM3), Université de Lorraine, Nancy, France

**Service Engineering and Service Management**  
Emy Ezura Bt. A. Jalil, Technology and Supply Chain Excellence Institute, School of Technology Management, Universiti Utara Malaysia

**Six Sigma**  
Cecilia Decearci, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, viale Risorgimento 2, 40136 Bologna, Italy

**Supply Chain Management**  
Hafida BOULOIZ, Systems engineering and decision support laboratory ENSA, Agadir, Morocco

**Sustainability and Green Systems**  
Robert Valencia-Chapi, Escuela Técnica Superior de Ingenieros Industriales Universidad Politécnica de Madrid C/ José Gutiérrez Abascal, 2. 28006 Madrid, Spain

**Sustainability in Manufacturing, Services, Logistics, and Freight transportation**  
Roberto Panizzolo, Department of Management and Engineering, University of Padova, Vicenza, Italy

**Sustainability in Supply Chains and Operations**  
Andreas Sterzing, Fraunhofer Institute for Machine Tools and Forming Technology, Fraunhofer Institute, Chemnitz, Germany

**Sustainable Manufacturing**  
Imane Benkhati. Faculté des Sciences Semlalia Marrakech, Casablanca, Morocco

**Systems Dynamics**  
Mahdi Bastan, Department of Industrial Engineering, University of Eyvanekey, Semnan, Iran

**Systems Engineering**  
Rolando Chavez, Department of Systems Engineering, San Luis Gonzaga University, Ica, 11000, Peru

**Technology Management**  
Abdul Wadood, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia

**TPM**  
Anouar Hallioui and Brahim Herrou, Industrial Techniques Laboratory, Center for Doctoral Studies in Engineering Sciences and Techniques - Faculty of Sciences and Techniques of Fez, SIDI MOHAMED BEN ABDELLAH University, Fez, Morocco

**Total Quality Management (TQM)**  

1. Algeria
2. Austria
3. Australia
4. Bangladesh
5. Belgium
6. Botswana
7. Brazil
8. Canada
9. Chile
10. China
11. Colombia
12. Costa Rica
13. Czech Republic
14. Demark
15. Ecuador
16. Egypt
17. Ethiopia
18. Finland
19. France
20. Germany
21. Greece
22. India
23. Indonesia
24. Iran
25. Iraq
26. Ireland
27. Israel
28. Italy
29. Jamaica
30. Jordan
31. Kazakhstan
32. Kuwait
33. Latvia
34. Lesotho
35. Libya
36. Malaysia
37. Mexico
38. Morocco
39. Nepal
40. Netherlands
41. New Zealand
42. Nigeria
43. Norway
44. Pakistan
45. Peru
46. Philippines
47. Portugal
48. Qatar
49. Romania
50. Russia
51. Saudi Arabia
52. Sierra Leone
53. Singapore
54. South Africa
55. South Korea
56. Spain
57. Sri Lanka
58. Sudan
59. Sweden
60. Taiwan
61. Thailand
62. Tunisia
63. Turkey
64. Ukraine
65. United Arab Emirates
66. United Kingdom
67. United States
68. Uzbekistan
69. Vietnam
70. Zimbabwe
CATME Workshop – Managing Student Team
2:00 – 3:45 pm, Monday, August 3 – Room 6

Matthew W. Ohland, Ph.D., F.ASEE, F.IEEE, F.AAAS
Dale and Suzi Gallagher Professor
School of Engineering Education
Purdue University
West Lafayette, Indiana, USA

Dr. Matthew Ohland is the Dale and Suzi Gallagher Professor of Engineering Education at Purdue University. He is a fellow of the American Society of Engineering Education, IEEE, and the American Association for the Advancement of Science. Along with his research partners, he was recognized for his work on longitudinal studies of engineering students with best paper awards in the Journal of Engineering Education in 2008, 2011, and 2019 and in the IEEE Transactions on Education in 2011 and 2015 in addition to best paper awards at multiple conferences. The CATME Team Tools software for team formation and peer evaluation developed under Dr. Ohland’s leadership has also received various awards and has been used by over 1,650,000 students worldwide. He received the Charles B. Murphy Award, Purdue University’s highest teaching recognition, in 2015. Dr. Ohland previously served as Associate Professor of General Engineering at Clemson University, Assistant Director of the NSF-sponsored SUCCEED Engineering Education Coalition and an NSF Postdoctoral Fellow for Science, Mathematics, Engineering, and Technology Education. Dr. Ohland has a Ph.D. in Civil Engineering from the University of Florida. Previously, he earned an M.S. in Materials Engineering and an M.S. in Mechanical Engineering in 1991 from Rensselaer Polytechnic Institute and a B.S. in Engineering and a B.A. in Religion from Swarthmore College.

GLOBAL ENGINEERING EDUCATION – I
8:00 – 9:40 am, Tuesday, August 3 – Room 1
Session Chair: Dr. Ali Nasir

8:00 – 8:20 am
Ali Nasir, PhD
Associate Professor and Head
Electrical Engineering Department
University of Central Punjab
Lahore, Pakistan

Understanding the Philosophy of Outcome based Education System

Dr. Ali Nasir is a Fulbright alumnus, an HEC approved Ph.D. supervisor (2013-Present) and a member of National Curriculum Review Committee for Electrical Engineering (2017). He has a blend of industrial and academic experience serving as project manager, director of control systems laboratory, head of department, industrial consultant, and lead researcher. Dr. Ali obtained his PhD (2012) along with two M.Sc. degrees (in Electrical Engineering and Aerospace Engineering) from the University of Michigan Ann Arbor in USA (2008 and 2011 respectively). He received his B.Sc. in Electrical Engineering with honors from the University of Engineering and Technology, Taxila (2005). He is currently working on distributed control of multi-agent systems and human intent prediction. His research interests also include Approximate Dynamic programming, fault tolerant control, and stochastic optimal control. He has more than 30 national and international publications to his credit including international conference publications, national and international journal publications, and book chapters.

8:20 – 8:40 am
Professor Sezi Cevik
Department of Industrial Engineering
Istanbul Technical University
Turkey

8:40 – 9:00 am
Vijay Prakash Singh
Assistant Professor in Computer Science & Eng. Dept.
SVIIT, SVVV – Shri Vaishnav Vidyapeeth Vishwavidyalaya
Indore, India

9:00 – 9:20 am
Dr. Manfredi Bruccoleri
Program Director of BSc and MSc in Management Engineering
9:20 – 9:40 am

Dr. Krzysztof Jemielniak
Professor emeritus, Faculty of Production Engineering
Warsaw University of Technology
Warsaw, Mazowieckie, Poland

9:40 – 10:00 am, Tuesday, August 3

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

Prof Aftab Alam is a Visiting Professor at CMS Jamia Millia Islamia for Executive MBA Program and Member Advisory Council of Harvard Business Review, USA. He has also served as Dean Faculty of Commerce and Management at Rama University Kanpur recently, its before he was also Dean FCM at Integral University, Lucknow during (2013-16), and MIMT Greater Noida (2006-2007). He has obtained his Masters, M. Com and M.Phil. from Aligarh Muslim University and has his MBA from Algappa University, Tamilnadu. In addition, he has his PG Diploma in Travel & Tourism Management from FCI (Aligarh) Ministry of Tourism, Govt. Of India. For his higher education, he has completed his Ph.D. in Business Administration from Atlantic University Honolulu, USA.

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

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

10:00 – 11:40 pm (Tuesday) – Room 1

Session Chair: Dr. Patrick Dallasega

10:00 – 10:20 am

Dr.-Ing. Patrick Dallasega
Assistant Professor
Industrial Engineering and Automation
Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen-Bolzano, Italy

Title: Aligning Engineering Education to Industry 4.0 requirements

Patrick Dallasega is an Assistant Professor of Factory Planning and Project Management at the Faculty of Science and Technology of the Free University of Bolzano (Italy). He studied at the Free University of Bolzano (Italy), at the Polytechnic University of Turin (Italy) and got his PhD at the University of Stuttgart (Germany). From 2005 until 2010, he worked in the fields of plant and factory planning in a local food processing industry. Later, from 2012 until 2015, he was employed as Research Associate at Fraunhofer Italia Research where he managed and executed several research projects for private and public customers. Since 2016, he has been employed as Assistant Professor at the Free University of Bolzano. His main research interests are in, supply chain management, Industry 4.0, lean construction, lean manufacturing and production planning and control in MTO and ETO enterprises.

10:20 – 10:40 am
Dr. Azharul Karim is currently working as an Associate Professor 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 A$3.2 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.

10:40 – 11:00 am
Dr. Denis Lemaître
Principal Investigator
Department of Formation et Apprentissages Professionnels
ENSTA Bretagne
Brest, France

11:00 – 11:20 am
Dr. Luis Manuel Sánchez Ruiz
Director Relaciones con Iberoamérica
Universitat Politècnica de València (UPV)
Valencia, Spain

11:20 – 11:40 am
Dr. Oleksandr Arkhypov
Professor and Head
Department of Theoretical Engineering and Industrial Enterprises
Volodymyr Dahl East Ukrainian National University
Severodonetsk, Ukraine

11:40 – 12:00 am
Dr. Luis Ramón Rojas-Solórzano
Director of Graduate Studies
School of Engineering and Digital Sciences
Nazarbayev University
Kazakhstan

Global Engineering Education - III
12:00 – 1:40 pm (Tuesday) – Room 1
Session Chair: Dr. Ogundu

12:00 – 12:15 pm, Tuesday, August 3
Prof. Dr. Bharat Raj Pahari, PE
Professor
Department of Civil Engineering
Institute of Engineering, Pulchowk Campus
Tribhuvan University (TU)
Pulchowk, Lalitpur, Nepal

Professor Pahari, a Civil Engineer, obtained master's degree in energy efficient building technology from Germany and had doctorate degree in quality of engineering education from Nepal. He had also post doctorate degree in quality management from France. He has extensive involvement in the professional and academic area. He is the initiator of cooperation & coordination between academia, industry and profession in Nepal. He is also involved in
the professional works on quality management. He is also widely involved in the quality of engineering education & professional practice. He is also working on leadership and management in the enterprises. Professor Pahari is also involved in the project planning, implementation, directing and monitoring.

Professor Pahari has been working in different capacity in the Institute of Engineering, Tribhuvan University (TU) and he is currently the Professor of Civil Engineering. He has served the University in the capacity of Dean of Institute of engineering during 2010 to 2014. He was the director of centre for energy studies from 2015 to 2018. Besides academic works, Professor Pahari has been extensively involved in the professional area as well. He was the director of IOE engineering consultancy services of the university from 2007 to 2010. He has been the chairman of Amarawati builders & Developers Pvt. Ltd. since 2007 till now. At present, he owns the four-star upscaled hotel Sarowar in Pokhara Nepal and involves as chairperson of the organization.

Professor Pahari is the author of six books and numbers of articles in national and international journals. Professor Pahari has chaired and co-chaired numbers of national and international conferences, meetings, workshops, etc. Further to this, Prof. Pahari has supervised several masters and PhD theses. He has also led several research projects of the government in energy planning and quality of management.

12:15 – 12:30 pm, Tuesday, August 3
Dr. Dumitru Burdescu
Professor
University of Craiova
Dolj, Romania

12:30 – 12:45 pm, Tuesday, August 3
Dr. Tom Van Woensel
Full professor of Freight Transport & Logistics
Eindhoven University of Technology
Eindhoven, North Brabant, Netherlands

12:45 – 1:00 pm, Tuesday, August 3
Dr. Wim Van Petegem
Professor
KU Leuven
Leuven, Flemish, Belgium

1:00 – 1:20 pm, Tuesday, August 3
John Ezzo
Founder and CEO
New Image Building Services Inc.
Troy, Michigan, USA

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

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

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

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

John is proficient in spoken and written Spanish.

1:20 – 1:40 pm, Tuesday, August 3
Dr. Joseph Ogundu
President
Emerald Global Consulting Inc.
Farmington Hills, Michigan USA

Lean Throughput Management in Automotive Assembly and Other Plant Operations.

Dr. Joseph M. Ogundu is the president /CEO of Emerald Global Consulting Inc., a Farmington Hills, Michigan based consulting firm. Dr. Ogundu has extensive experience in academia, leadership, project management, business process excellence, lean transformation, six-sigma, supply chain management and supplier quality, change management, operations, industrial engineering, manufacturing and process engineering, quality engineering and quality assurance. Dr. Ogundu is a lean practitioner and six-sigma practitioner that sees lean six-sigma as operations management philosophy that is based on the relationship between waste reduction and elimination, quality improvement and operations performance measures.

Dr. Ogundu was Adjunct professor, Industrial and Systems Engineering at both Lawrence Technological University, Southfield Michigan and Oakland University, Rochester Michigan, as well Adjunct Professor: Business Administration, Kettering University, Flint Michigan. He thought courses in both undergraduate and graduate levels and the courses were Lean Systems Application, Quality Assurance and Control, Total Quality Management, Operations Research and Stochastic Processes, Manufacturing Processes, Advanced Quality Planning, Supplier Quality, Business Statistics, Lean Six-Sigma, Production Planning and Control, Materials and Inventory Management and Operations Management. Dr. Ogundu worked in the following industries, Automotive, Oil and Gas, Manufacturing, Consulting, Energy and Health Care. Dr. Ogundu is the author of the book “The Relationship between Types of Waste and Operating Performance Measures.

Dr. Ogundu graduated with a Doctorate Degree in engineering and manufacturing systems, Masters in business administration from Lawrence Technological University, Master’s Degree in Manufacturing Engineering from Wayne State University and a Bachelor’s Degree in Industrial Engineering from University of Tennessee. Knoxville, Tennessee. Dr. Ogundu spent the earlier years of his career in engineering, leader and senior management positions as director and executive director at Country Coach Inc, process engineering manager at DaimlerChrysler AG, Senior Operations leader at Chrysler Corporation, facilities engineer and project manager at Ford Motor Company and Senior Product Engineer at General Motors Corporation. Dr. Ogundu has served as board member of Lawrence Tech University College of Management Alumni Association, Finer Cabinetry & Woodwork Inc., Citation Plastics, LLC., River State Foundation Inc., as well as Board member of Health Care Management department at South University Novi, Michigan Campus. Also, he served as Vice President of Chapter Development Institute of Industrial Engineers SE Michigan/Toledo Chapter from 1991 to 1992.

Global Engineering Education - IV
5:00 – 6:40 pm (Tuesday) – Room 1
Panel Chair: Dr. Noha Mostafa, The British University in Egypt

5:00 – 5:20 pm, Tuesday, August 3
Dr. Antonis Asimakopoulos
Lecturer
Engineering Department
Mediterranean College
Thessaloniki, Greece

5:20 – 5:40 pm, Tuesday, August 3
Prof. Dr.-Ing. Egon Müller
Director Institute of Industrial Sciences and Factory Systems
Chemnitz University of Technology
Chemnitz, Germany

5:40 – 6:00 pm, Tuesday, August 3

New trends in engineering education

Mohamed Essaaidi, Prof. Dr., IEEE Senior Member and a Professor at ENSIAS, Mohammed V University in Rabat. He obtained the State Doctorate (1997) in Electrical & Computer Engineering from Abdelmalek Essaadi University, Tetuan, Morocco. He was the Director of International Cooperation at the Ministry of General Affairs and Governance, Morocco (2019). Dean of ENSIAS College of IT Engineering of Mohammed V University of Rabat, Morocco (November 2011-May 2019). Professor of Electrical & Computer Engineering at Abdelmalek Essaadi University in Tetuan, Morocco (2001-2011) and Assistant Professor at the same university (1993-2001).

Prof. Essaaidi is IEEE Global Cities Alliance, MEA Chairman (2021), IEEE Humanitarian Activities Assessment Committee Member (2021), IEEE Teaching Excellence Editorial Hub, Member (2021). He is also a lecturer on Smart Cities at the ITU IoT Academy (2020-2021) and the Chief of Party of Interactive Digital Center Morocco (2020-2021). He is the founder and past Chairman of the IEEE Morocco Section (2005-2015), co-founder and chair of IEEE Morocco Communications / Computer Society Chapter (2006-2008) and IEEE Education Society Morocco Chapter chair from 2007 to 2009. He has been a member of Committee of Global Accreditation activities of IEEE Education
Activities Board (2017-2018). He has been also Director of the Morocco Office of Arab Science and Technology Foundation, ASTF (2006-2009) and the Coordinator of ASTF RD&I Network of Electro-Technology (2006 – 2008).

He has authored and co-authored 10 books and more than 200 papers in international refereed journals and conferences in the field of Electrical and Computer engineering and its diverse applications including smart homes, smart mobility smart grid and smart cities. He has been the Editor-in-Chief of International Journal on Information and Communication Technologies, Serial Publications, India (2007-2011) and Guest Editor of several international journals. He is also an active member of the editorial boards of several international journals in the same fields mentioned above.

Furthermore, Prof. Essaïdi is the founder and the General Chair / co-chair of several IEEE technically sponsored international conferences, including Mediterranean Microwave Symposium (which is organized on yearly basis since 2000), Information and Communication Technologies International Symposium (2005, 2007). He also organized and co-chaired IEEE Smart Cities Summit in May 2020, the US National Academies 5th Arab American Science, Engineering and Medicine Frontiers Symposium in November 2017, Rabat, Morocco and US NSF sponsored workshop on Smart Cities in January 2016 in Rabat, Morocco. He has also served in the Organizing committees and TPC and presented keynote talks at many other international conferences worldwide including on smart cities. He has been also Committee Member of IEEE Casablanca Core Smart City in 2016 and a member of Madinat Al-Irfane University Smart Campus initiative, Rabat.

Prof. Essaïdi holds 10 patents in the field ICT. Some of these patents received several international innovation awards. He was also a member of the IEEE 802.16 Sponsor Ballot Pool of IEEE Standard Association that defined the technical specifications for WiMAX, and of that of IEEE P2784 – Smart City Planning and Technology Guide Work Group (2020). Prof. Essaïdi supervised several Masters and PhDs theses and he has been the principal investigator and the project manager for several research projects in the framework of national and international programs.

Furthermore, in the framework of his position as the director of International Cooperation in the Ministry of General Affairs and Governance, he was extensively involved in the coordination of the World Bank Morocco Country Partnership Framework (2019-2024) and OECD Morocco Country Program (2019-2021) among other international cooperation programs.

6:00 – 6:20 pm, Tuesday, August 3

Dr. Milan EDL
Dean of Faculty of Mechanical Engineering
President of Czech Smart City Cluster
University of West Bohemia
Pilsen, Czech Republic

6:20 – 6:40 pm, Tuesday, August 3

Dr. Noha Mostafa
Assistant Professor of Industrial Engineering and Management
The British University in Egypt

“Assessing market needs and use them in syllabus design”

Dr. Noha Mostafa is an assistant professor of industrial engineering and management in Mechanical engineering department, The British University in Egypt. She was a visiting PhD student in Tokyo Institute of Technology, Japan in 2016 and she finished her PhD degree in 2017 from Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt. She has broad research interests including supply chain management, logistics, Internet of Things, sustainability, quality management, design thinking, Lean manufacturing, information systems, and entrepreneurship. In addition, she is supervising M.Sc. students and graduation projects and has participated in several international and local conferences and competitions. She is the founder and faculty advisor of IEOM student chapter in Zagazig University.
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8:00 – 8:20 am (Wednesday, August 4) – Room 1

Gerald Watson
Vice President
Everest Group International, LLC
Sacramento, California, United States

Reduction of mistakes in the application of IE functions by the use of Critical Thinking

Dr. Watson earned a B.S. and an M.S. in Industrial Management from The Georgia Institute of Technology, was commissioned and spent two years in the U.S. Army where he taught Production Manufacturing Systems for the University of Maryland during a tour of duty in Viet Nam. He has been employed as a manufacturing engineer, production manager and safety manager for various companies for over thirty years and recently as a consultant for Everest Group International. He obtained his PhD in Industrial and Systems Engineering from North Carolina A&T State University where he taught manufacturing processes, including asset maintenance, manufacturing planning and management, and supply chain management as an Adjunct Professor in the School of Technology. He also has taught applied calculus at American University in Washington, DC. He has successfully installed many applications of Industrial Engineering in a variety of manufacturing facilities, including lean manufacturing, JIT, quality and productivity improvement programs. He has authored numerous articles on the application of technology to manufacturing, several of which he presented at engineering conferences. He has authored a textbook, entitled Critical Thinking – Learning from Mistakes and How to Prevent Them and is currently writing another textbook which will be titled Integration of Methods Improvement and Measurements into Industrial Engineering. He also holds a Green Belt in Six Sigma.

8:20 – 8:40 am (Wednesday, August 4) – Room 1

Carlo Bonato
Lean Manufacturing Senior Expert - Supply Chain Management Senior Expert- Six Sigma Senior Expert
Productility srl
Monza e Brianza, Lombardy, Italy

8:40 – 9:00 am (Wednesday, August 4) – Room 1

Dr. Danilo Mascolo
Chief Innovation and Technology Officer\Chief Services Officer\Scientific Director
B-REX, the Emilia-Romagna Competence Center of Industry 4.0
Bologna, Emilia-Romagna, Italy

BiRex Rules in the Italian Ecosystem 4.0 including some use cases

Ing Danilo Mascolo, MBA, started his career as researcher in the University Federico II, where he graduated summa cum laude in Electronic Engineering and Information Theory. In June 2002, he joint STMicroelectronics as R&D Manager and PM of emerging technologies with application in Flexible Electronics, Energy Harvesting, Si-Optics, Embedded Computing & AI. As principal investigator, he drove Molecular and Carbon-based Electronics in US, UE and Singapore, where he contributed to start operations of a new R&D Centre. In July 2009, he moved in Confindustria Emilia-Romagna – the Federation of Industry Associations - as CIO deploying innovation and strategic management counselling services to the Associate Companies Network (>7.000). Over the years, he supported >1.000 companies in consolidated and digitalized value chains and was involved in > 100 innovation and R&D UE/National funded projects with overall 150M€ budget. Today he is the head of Innovation and business development of the national competence center on Big Data and Applied-AI for Manufacturing. He often joins as independent expert evaluation pool in the European Commission on topics like Quantum Technology, Material Science, Cyberphysical System-of-Systems, HPC and AI and supports as advisor start-ups and private equity|seeds funding. During his activities, he wrote several papers and chapters to books, filled 65 patents and PCT and was listed top-10 inventors on nanotech 2006-2009 in EPO.

9:00 – 9:20 am (Wednesday, August 4) – Room 1

Dimitri Cayard
Industrial Engineer
Graduate Student Researcher (Ph.D. Candidate)
Innovation Engineering Lab
National Chiao Tung University
Hsinchu, Taiwan

9:20 – 9:40 am (Wednesday, August 4) – Room 1

Md Mazharul Habib, (PhD student)
Dr. Michele Cano (Director of Studies, Senior Lecturer)
Dr. Evi Viza, (Sr. Lecturer) and
ID 840  Potential Effectiveness of Quality Tools and Techniques to Introduce Total Quality Management (TQM) in Ready Made Garment (RMG) Manufacturing Industries in Bangladesh

9:40 – 10:00 am (Wednesday, August 4) – Room 1

António de Amorim
Project Manager, Serious Incidents & Communication
Vestas
Viana do Castelo, Viana do Castelo, Portugal

Industry Solutions and Industry 4.0 - II
10:00 – 11:40 am (Wednesday, August 4) – Room 1

Session Chair:
Bruno Alves
Lead Manufacturing Engineer ADAS ECU
Aptiv
Braga, Portugal
10:00 – 10:20 am (Wednesday, August 4) – Room 1

Alberto Bartolini
Lean Engineer -Innovation Manager
Sustainability Manager - Audito Lead Auditor Rating Sostenibilità
Perugia, Italy

Society 5.0 / Future Industry Innovation-Sustainability
10:20 – 10:40 am (Wednesday, August 4) – Room 1

Johnny Shahinur Alam MIT ACE, HBS GMP, PMP, ITIL, SSBL, CCNP
Technical Solutions & Program Director, Ericsson Europe
Freelancing Consultant, Digital & Business Transformation
Founder & CEO, Youth Carnival
Co-Founder & MD Trip Zone
Dublin, Ireland

Johnny has 19 years of experience as a Tech Leader who is passionate to solve the problems by using Cutting Edge Technologies Like AI/ML/NLP, Cloud Solutions, Cyber Security, 5G/IoT, Automation Data Analytics; Leadership & Management capabilities and bringing the Result Oriented Solution and Digital Transformation.

He is Excellent in Artificial Intelligence, Machine Learning, Deep Learning, NLP, Smart Tech/ City, Automation & Robotics. Experienced in IOT/4G/5G/VoLTE, Telco Core, Google Cloud Platform (GCP), Kubernetes, DevOps, Business Analytics. Experienced & in- depth knowledge in Ericsson, Openstack, MS Azure, Red Hat, AWS, VMware, Cisco, Juniper, and Huawei.

Drive the Innovative & Design thinking process, Emotional Marketing, Business Analytics and discover jobs to be done (JTBD) and develop frameworks to better understand customer needs. Has led 110+ multi Millions Accounts in 50+ countries (USA, Germany, Switzerland, Italy, UK, Sweden, Ireland, Denmark, France, UAE, Saudi Arabia, Lebanon, Jordan, Canada, China, Turkey, South Africa, India, Guatemala, Mexico, Malta, Serbia, Netherlands, Australia, , Russia, Bahrain, Nigeria, Ivory coast, Benin, Sudan, Vietnam and so on). Has been successfully leading and managing the large cross-functional projects, Product & Service portfolio Management for different customers across the globe. Providing Customers Focused strategy, operations excellence and management. He likes to take the challenges and prove his ability to deliver better results even in pressure cooker situations.

- General Management Program – Harvard Business School
- Advanced Certificate for Executives - MIT Sloan School of Management
- Executives Certificates (all 3 Tracks) - MIT Sloan School of Management
- Certificate of Specialization in Strategy – Harvard Business School
- Artificial Intelligence, Blockchain Technologies, Digital Business Strategy – MIT
- Digital Marketing Analytics EDP, Design Thinking – MIT
- Master Business Essentials: CORE- HBS
- Disruptive Strategy, Leading with Finance & Entrepreneurship Essentials – HBS

10:40 – 11:00 am (Wednesday, August 4) – Room 1
11:00 – 11:20 am (Wednesday, August 4) – Room 1

Yasar Ajlouni, MSc, PMP
Project Management Advisor
Amman, Jordan

Yasar Ajlouni is a seasoned program management professional with 35+ years of experience across several industries, including aviation, manufacturing, utilities, consumer packaged goods, nuclear and real estate. Yasar has 10+ years in PMO experience and holds several certifications including PMP, MSP, PMOC, PMO Value Ring CP, Certified Innovation Manager, Digital Business Transformation Management, Accredited Customer Experience Master, and Foundational Certification in Agile Scrum. An author of several PM articles, Yasar has been featured on Project Management Times as well as Business Analytics Times amongst others. Yasar is a speaker and member of PMI Thought Leadership Committee, a judge for the PMO Global Alliance for the past 4 years, and in 2018, he was one of five awarded most valuable PMO judges globally. Yasar is a retired Brigadier from the Royal Jordanian Air Force, holds a Masters Degree in Engineering from King's College London, and is a passionate father for two engineers.

11:20 – 11:40 am (Wednesday, August 4) – Room 1

Koketso Lefatshe
Brewery Logistics Manager
Anheuser-Busch InBev
Gaborone, South-East, Botswana

12:00 – 1:40 pm (Wednesday, August 4) – Room 1

Industry Solutions and Industry 4.0 - III

Dott. Ing. Luca Gualtieri
Research Fellow
Industrial Engineering & Automation (IEA)
Smart Mini Factory Laboratory
Free University of Bozen-Bolzano
Faculty of Science and Technology
39100 Bozen, Bolzano (BZ), Italy

Flexible Automation through Human-Robot Collaboration to Enhance Ergonomics and Performance in Industrial Assembly: a Case Study

Luca Gualtieri is an Industrial Engineer specialized in manufacturing and logistics. He is also a certified Occupational Health and Safety Manager and Trainer, mainly focused on safety of machinery. He is working in the Smart Mini Factory lab as research fellow and doctoral candidate for the Industrial Engineering and Automation (IEA) group of the Faculty of Science and Technology, Free University of Bozen-Bolzano. He is responsible for research in the field of industrial collaborative robotics. In particular, he is focusing on human–machine interaction from the point of view of the operator's occupational health and safety conditions, ergonomics, and shared workplace organization. He is involved in the EU project “SME 4.0—Industry 4.0 for SMEs” as well as industry projects on collaborative robotics and workplace design.
**Interrelationship of Lean Management and Industry 4.0 in the ETO sector**

Felix Schulze is a PhD candidate in the PhD program ‘Advanced Systems Engineering’ at the Faculty of Science and Technology of the Free University of Bolzano (Italy). He received his Master of Engineering degree at the Beuth University of Applied Sciences in Berlin (Germany). For ten years he worked as a professional in the automotive, construction and Engineer-to-Order industries in various countries and positions. His research activities mainly concern the application of Industry 4.0 technologies to Engineer-to-Order and construction environments.

Matteo Casadio Strozzi is adjunct professor at Politecnico di Milano, teaching Production Planning and Control, Project Management and Quality Management in different courses. He is a Six Sigma CMBB and works with several industries in implementing Operational Excellence programs and projects. He’s been involved in OpEx project since 2000, implementing Lean, Six Sigma and WCM methodologies in different industries and companies. His main areas of research are Operational Excellence, Quantitative Methods and Change Management. He’s the author of different books and publications about Six Sigma and Operational Excellence topics.
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IEOM Global Supply Chain and Logistics

Distinguished Speakers

Thursday, August 5, 2021

Global Supply Chain and Logistics I
8:00 – 9:40 am (Thursday, August 5) - Room 1
Session Chair: Dr. Jay Daniel

8:00 – 8:20 am, Thursday, August 5

Song-Man Wu
Industrial and System Engineering Department
The Hong Kong Polytechnic University
Hung Hum, Hong Kong
China

ID 316      A Supply Chain System with Capital Constraints Considering Various Salvage Values
Song-Man Wu, Felix T.S. Chan and S.H. Chung, Industrial and System Engineering Department, The Hong Kong Polytechnic University, Hung Hum, Hong Kong, China

8:20 – 8:40 am, Thursday, August 5

Dr. Jan Olhager
Professor, Supply Chain and Operations Strategy
Lund University
Lund, Sweden

8:40 – 9:00 am, Thursday, August 5

Dr. Susana Duarte
UNIDEMI, Department of Mechanical and Industrial Engineering,
NOVA School of Science and Technology, Universidade NOVA de Lisboa, Portugal

Susana Duarte holds a Ph.D. in Industrial Engineering. Presently she is an Assistant Professor of Industrial Engineering at NOVA School of Science and Technology of the Universidade Nova de Lisboa, Portugal. She lectures several courses on topics related to industrial engineering including, production management, industrial management and strategy, industrial engineering, logistics, decision models, among others. She is a research member of UNIDEMI Research Center where develops their investigation in the area of lean manufacturing, green management, lean-green supply chain, and performance measurement systems. She has published scientific papers in several international refereed journals and international conferences proceedings. She was awarded Excellence Award from Emerald Group Publishing and three awards from International Conferences. She is a member of the board of the Portuguese Institute of Industrial Engineering.

9:00 – 9:20 am, Thursday, August 5

Dr. Abhijit Sarkar
Assistant Professor
Dept. of Management Studies
SMIT
India

Potential Contributions of Heavy Transport Sector towards a Sustainable and Habitable Earth - Market Focused Technological leadership by OEMs

9:20 – 9:40 am, Thursday, August 5

Dr. Jay Daniel
Senior Lecturer, Supply Chain & Business Analytics
Programme Leader, MSc Supply Chain Improvement
Derby Business School
University of Derby
Derby, UK

Dr Jay Daniel is a Programme Leader for MSc Global Operations and Supply Chain Management and Senior Lecturer at the University of Derby, UK. Before joining the Derby Business school, he was a lecturer in Supply Chain and Information Systems at the University of Technology Sydney (UTS), Australia. Previously with DB Schenker, Australia, and Alliance International Registrar, Asia Pacific, Jay held positions of Senior Management Consultant, Supply Chain Solution Analyst, Project Manager, Industry Trainer and Lead Auditor. He has published over 40 refereed papers in many prestigious journals and international conferences such as IEEE Transactions on Fuzzy Systems, International Journal of Information Management, Service Research and Innovation, amongst others. His primary areas of research focus are: Supply Chain Management
Global Supply Chain and Logistics II
10:00 – 11:40 pm (Thursday, August 5) - Room 1
Session Chair: Dr. Ferry Jie

10:00 – 10:20 am, Thursday, August 5
Ts. Dr. Mehran Doulat
Associate Researcher & Professor
MBA Centre
Xiamen University, Malaysia Campus
Director of Asia-Pacific Centre for Operational Excellence and Sustainability (SPECTRAL Ent.)
Editorial Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran is a full-time Professor of Operations Management and Sustainability, also an Associate Researcher at COER, New Zealand. He holds a Bachelor of Science in Engineering; double Master's Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Mehran has completed a 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. He spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a ‘TRADE’ Certification Best Practice Benchmarking from Belgium and New Zealand. He has served as a Senior Assessor for the Dubai Quality Award (DOA) program since 2007. Mehran has also been actively involved in a number of academic–industrial projects and research in the United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, China and UAE. Mehran is also serving as the editorial board and leading guest editor of special issue for International Journal of Industrial Engineering and Operations Management (IJIEOM), Journal of Industrial Engineering & Management Systems (JIEMS), International Journal of Organizational Business Excellence (JOBEX), and the Best Practice Improvement Resource. Mehran has been working as a visiting professor and research fellow at University of Wollongong, Australia; National University of Singapore; Meiji University, Japan; Massey University, New Zealand; University of Pune, India; Universiti Teknologi Malaysia; and Xiamen University, China.

10:20 – 10:40 am, Thursday, August 5
Ferry Jie, PhD
Associate Professor of Supply Chain and Logistics Management
Edith Cowan University (ECU)
Joondalup, WA 6027
Australia

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

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

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

10:40 – 11:00 am, Thursday, August 5
Dr. Khurram Nawaz
Senior Advisor, Management Systems
Emirates Nuclear Energy Corporation
Abu Dhabi, United Arab Emirates
Director for Canadian Institute of Organizational Excellence (CIOE) Inc
Calgary, Canada.

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

Ahmed Abbas is a Senior Researcher at Business Performance Improvement Resource (BPIR.com) and co-founder of EduTrain International, and Global Benchmarking Network (GBN) representative for Bahrain Quality Society. Ahmed has participated on number of research and benchmarking projects, such as Excellence Makers – Dubai We Learn for two cycles, development of vocational standards for Ministry of Labour, Asian Productivity Organisation Business Excellence Guide Book. Ahmed has an active role in increasing awareness of quality and benchmarking within Bahrain and gulf region, through organising and delivering workshops and training sessions to Bahraini organisations, especially SMEs and non-profit organisations. Prior to BPIR.com he worked as a Quality Specialist at the Labour Market Regulatory Authority and Aluminium Bahrain. His experience includes implementing quality management programmes in industrial laboratories, educational institutes and government departments.

Dr. Pouria Liravi
Senior Lecturer in Operations and Supply Chain Management (Procurement)
College of Business, Law and Social Sciences
University of Derby, UK

Eng. Dr. Fabio Ricci Curbastro
Project Manager
SmartEngineering
Bologna, Emilia-Romagna, Italy

Dr. Ernesto D.R. Santibanez Gonzalez
Professor de Departamento de Ingeniería Industrial
UFOP: UFOP: Universidade Federal de Ouro Preto
Ouro Preto, Minas Gerais, Brazil

Mahbuboor Etmamder
Operations at Messer Americas
Toronto, Ontario, Canada
Dr. Teresa Verduzco-Garza
Researcher and Professor
Industrial and systems Engineering Department
Engineering School
University of Monterrey
Mexico

Topic: Synergy and Collaboration in Supply Chains

Dr. Teresa Verduzco-Garza is a professor and researcher for the Engineering School in University of Monterrey, Mexico (UDEM) at the Industrial and Systems Engineering department. Her research and experience focuses on Clusters for competitiveness, Logistics clusters, Supply Chain Management, Operations Management, Supply Chain Strategy. Received her Ph.D. Degree in Management for Supply Chains from the UANL Autonomous University in Nuevo Leon, Mexico during 2018. Developed a combined research stay at Orkestra Institute for Cluster and Competitiveness and Deusto University in Basque Country, Spain during 2019. She has previous experience in the industry, holding positions as project manager, account manager, Corporate Strategic Planning, Geographic Expansion among others, in important worldwide recognized enterprises. Nowadays, she works with important clusters in Mexico, developing supply chain and Logistics Synergies (Co-Loading) projects for competitiveness in the Automotive cluster (CLAUT) and Electrical Appliances cluster (CLELAC), as well as strategic planning initiatives, supply chain network mapping for Agrifood cluster (Agro Alim). Teresa has published his works in journals with national and international scientific circulation, has participated as a speaker in important conferences in forums such as IEOM, SISE, IISE, ASEM, TCI Global Conferences in countries such as the USA, Colombia, South Korea, Canada, the Netherlands, France and other European countries. Additionally, she is an active member of IEOM, APICS and TCI Network International Competitiveness Institute, as well as of the Harvard Business School network of the Institute for Strategy and Competitiveness.
Panel Sessions

Quality 4.0 Panel
4:00 – 5:45 pm, MONDAY, August 2

Panel Chair

Dr. M. Affan Badar, PhD, CPEM
Professor and Former Chair
Department of Applied Engineering and Technology Management
Indiana State University
Terre Haute, Indiana, USA

How do Big Data and Machine Learning support Quality 4.0?

M. Affan Badar, PhD, CPEM is a Professor and former Chair of the Department of Applied Engineering and Technology Management at Indiana State University, USA. From 2016 to 2018, he was Professor and Chair of the Department of Industrial Engineering and Engineering Management at the University of Sharjah, UAE. He received a PhD Degree in Industrial Engineering from the University of Oklahoma in 2002, MS in Mechanical Engineering from King Fahd University of Petroleum and Minerals in 1993, and MSc in Industrial Engineering in 1990 and BSc (Hons) in Mechanical Engineering in 1988 from Aligarh Muslim University. Dr. Badar has published more than 70 articles in refereed journals and proceedings in the areas of quality, reliability, coordinate metrology, lean manufacturing, health care, energy system design, and supply chain. He is a member of IISE, IEOM, ASEM, and ASME.

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

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

Cyrus lives in the Sacramento area, USA.

Panel Speaker I

Bob Doering, MBA
Quality Engineer
Superior Roll Forming
Quality Engineering Professional
Expert in CorrectSPC for Precision Machining – Trainer, Consultant
Lagrange, Ohio, United States

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

Panel Speaker II

Dr. Vivek Soni
Assistant Professor
Coordinator - Internal Quality Assurance Cell
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions
Bharatiya Vidya Bhavan's - Usha and Lakshmi Mittal Institute of Management
New Delhi, India

Dr. Soni is a distinguished faculty of Operations and Decision Sciences at one of the well reputed educational system Bharatiya Vidya Bhavan’s Institute of Management New Delhi. Professor Soni has deep insights into management areas, is also certified Independent Director by Ministry of Corporate Affairs, Govt. of India and works as a consultant to wide aspects of energy (particularly wide dimensions of conventional and non-conventional forms of security and sustainability), energy–environment nexus, India’s strategic development on energy, role of sustainable technologies to reduce climate change, and technology-based climate change adaptation. More specifically, his research focuses on operations cum strategic management-based modeling approaches to assist development of India as data and knowledge driven society with an equitable and sustainable and qualitative education, energy and also with cleaner and safe environment. He is Accredited Management Teacher by AIMA, conveyor of Innovation Cell, and also Coordinator of Internal Quality Assurance Committee and Centre for Excellence in Innovative Energy Solutions; He teaches Entrepreneurship, Operations and Supply Chain Management related courses.
His innovative research intending to optimal solutions for objectives of several GDP dependent, both SME and service sectors working towards reforming India's rural economy, specifically through academic deliveries are leverages by his deep industry rich experiences, all of which he gained with his wide gamut of experience with Government, Public Sector Units and Corporate, particularly on National Educational Programme for creating awareness for enhance energy efficiency under the National Action Plan for Climate Change. Renewable energy and energy efficiency, the politics of large-scale energy infrastructure, designing public policy to improve energy security and access to electricity, and building adaptive capacity to the consequences of climate change, all are of his ever green and ongoing research agenda to advocate to management stakeholders.

As a sample of reflection, his research on precise decision on energy has been depicted in several international and national journals/magazine interviews, few of them include Fundamental and Innovations in Solar Energy, Sustainable Production and Consumption, Indian Journal of Public Administration, International Energy Sector Management, Transforming Government: People Process and Policy, Information Security and Management, and Journal of Advances in Management etc. His research also conferred upon Emerald Literati Network Awards for Excellence (2017) by Emerald Publishing, United Kingdom, under the category of Highly Commended Paper. His research work is seen in international conferences at The Institute of Energy Economics (IEEJ) Japan (2009), International Academy of Business, and Economies (IABE), USA (2012) and Canadian University of Dubai, (2014).

Panel Speaker III

José Carlos Sá
Adjunct Professor
Course Subdirector
Mechanical Engineering Department - Sub-Area of Industrial Engineering and Management
Superior Institute of Engineering of Porto
Porto, Portugal

José Carlos Sá is MSc in Industrial Engineering and Bachelor Degree in Production Engineering, both by University of Minho, Portugal. In 2015 he awarded the title of Specialist in Quality Management, by Polytechnic Institute of Viana do Castelo, Portugal. He is auxiliary Professor and Lean Six Sigma Post-Graduation Coordinator at the School of Engineering, Polytechnic of Porto (Portugal). He taught in Higher Education since 2005. He has made several presentations at various national and international congresses and he has more than 40 papers (ISI+SCOPUS) published on quality management, continuous improvement, safety and lean six sigma.

He was consultant from 2004 to 2020, in several companies, in the areas of safety management, quality management, Lean Six Sigma and industrial management. In 2015, José Carlos became a "Senior Member" of the Portuguese Engineer Association.

Panel Speaker IV

Adil Dalal
Vice President of Operations
Enviromedica
Austin, Texas, USA

When Human Intelligence (HI) meets Artificial Intelligence (AI): A Road to World Wide Intelligence (WWI)

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

Panel Speaker V

Dr. Elizabeth Cudney
Associate Professor of Business Data Analytics
John E. Simon School of Business
Maryville University
St Louis, Missouri, United States

Dr. Elizabeth Cudney is an Associate Professor of Business Data Analytics in the John E. Simon School of Business at Maryville University. She received her B.S. in Industrial Engineering from North Carolina State University, Master of Engineering in Mechanical Engineering and MBA from the University of Hartford, and doctorate in Engineering Management from the University of Missouri – Rolla. She received the 2020 Walter E. Masing Book Prize from the International Academy for Quality for her book on Lean Six Sigma. In 2018, Dr. Cudney received the ASQ Crosby Medal for her book on Design for Six Sigma. Dr. Cudney received the 2018 IIEE Fellow Award. She also received the 2017 Yoshio Kondo Academic Research Prize from the International Academy for Quality for sustained performance in exceptional published works. In 2014, Dr. Cudney was elected as an ASEM Fellow. In 2013, Dr. Cudney was elected as an ASQ Fellow. In 2010, Dr. Cudney was inducted into the International Academy for Quality. She received the 2008 ASQ A.V. Feigenbaum Medal and the 2006 SME Outstanding Young Manufacturing Engineering Award. She has published nine books and over 95 journal papers. Dr. Cudney is a certified Lean Six Sigma Master Black Belt. She holds eight ASQ certifications, which include ASQ Certified Quality Engineer, Manager of Quality/Operational Excellence, and Certified Six Sigma Black Belt, amongst others.
Global Supply Chain and Logistics Panel
6:00 – 7:45 pm, MONDAY, August 2
Panel Chair: Professor Jose Arturo Garza-Reyes, University of Derby, UK

SCM Panel Chair

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
University of Derby, UK
Editor-in-Chief, International Journal of Industrial Engineering and Operations Management (IJIEOM)

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 European Union, British Academy, British Council and Mexico’s National Council of Science and Technology (CONACYT). As a leading academic, he has published over 120 articles in leading scientific journals, international conferences and five books in the areas of operations management and innovation, manufacturing performance measurement and quality management systems. Areas of expertise and interest for Professor Garza-Reyes include general aspects of operations and manufacturing management, business excellence, quality improvement, and performance measurement. He is a Chartered Engineer (CEng), a certified Six Sigma-Green Belt, and has over eight years of industrial experience working as Production Manager, Production Engineer and Operations Manager for several international and local companies in both the UK and Mexico. He is also a fellow member of the Higher Education Academy (FHEA) and a member of the Institution of Engineering Technology (MIET).

SCM Panel Speaker I

Professor Vikas Kumar, Ph.D.
Professor of Operations and Supply Chain Management
Director of Research and Scholarship
Bristol Business School
University of the West of England (UWE)
Bristol, UK

Vikas Kumar is a Professor of Operations and Supply Chain Management and Director of Research & Scholarship at Bristol Business School, University of the West of England, UK. He holds a PhD degree in Management Studies from University of Exeter, UK. He has published more than 170 peer-reviewed articles in leading International journals and international conferences including the Journal of Business Research, International Journal of Production Research, Supply Chain Management: an International Journal, Expert System with Applications, International Journal of Production Economics, and Production Planning & Control. He serves on the editorial board of a number of international journals including The Int. J. of Industrial Engineering and Operations Management, Int. J. of Services, Economics and Management, Int. J. of Manufacturing Systems, and Int. J. of Lean Enterprise Research. He has successfully secured funding in the excess of £1 million from various research agencies such as EPSRC, Innovate UK, British Academy, Newton Fund and British Council. His current research interests include Sustainability, Circular Economy, Food Supply Chains, Operational Excellence, and Business Model Innovation.

SCM Panel Speaker II

Dr. Jiří Tupa
Vice Dean for Faculty Development
Faculty of Electrical Engineering
University of West Bohemia
Pilsen, Czech Republic

Jiri Tupa received his MSc (2002) and PhD (2006) in Electrical Engineering from Faculty of Electrical Engineering, University of West Bohemia in Pilsen in Czech Republic. He is a Vice-dean of faculty and Senior Lecturer at Department of Technologies and Measurement. Dr. Tupa is member of executive management at Regional Innovation Centre for Electrical Engineering of the Faculty of Electrical Engineering at the University of West Bohemia in Pilsen. He is also PhD supervisor, reviewer of journal and conference publications and co-organizer of conferences. His research interests include Business Process Management, Quality Management, Risk and Performance Management in Electrical Engineering Industry, Industrial Engineering, Electronics Manufacturing and Diagnostics, Financial and Project Management, Copyrights and patents law, information law and transfer of IPR. Jiri Tupa is responsible for several international research and development projects with industrial and University partners. The project RImaCon - Risk Management Software System for SMEs in the Construction Industry is one of the important international projects. This project has received funding from the European Union’s Seventh Framework Program for research; technological development and demonstration (2013-2017). The RImaCon project’s main goal is to implement a collaborative effort to promote the sharing of knowledge and competencies in a long-term strategic research partnership around the development, testing and validation of a cost effective and user-friendly risk management system for SMEs in the construction sector.
Dr. Luis Rocha Lona
Lecturer in Operations Management, Business School
National Polytechnic Institute of Mexico
Mexico City, Mexico
Tec de Monterrey, Campus Santa Fe

Luis Rocha-Lona is a Lecturer in Operations Management at the Business School at National Polytechnic Institute of Mexico and at Tec de Monterrey, Campus Santa Fe. Luis Rocha graduated from the National Polytechnic Institute of Mexico (IPN) as Automation Control Systems Engineer. Then, he pursued an MSc in Control Systems with a major in information systems/manufacturing at the University of Sheffield, UK. He holds a PhD in Operations Management from The Manchester Business School. Dr Luis Rocha-Lona has eight years of working experience in the public and private sectors. He has lead several projects involved with service and manufacturing organisations and is currently supervising Master and PhD students at National Polytechnic Institute of Mexico.

Dr. Anil Kumar
Senior Lecturer (Associate Professor)
Guildhall School of Business and Law
London Metropolitan University
London, UK

Dr. Anil Kumar is a Senior Lecturer (Associate Professor) at Guildhall School of Business and Law, London Metropolitan University (LMU), London, U.K. For the last ten years, he has been associated with teaching and research. Before joining LMU, he was Post-Doctoral Research Fellow in area of Decision Sciences at the Centre for Supply Chain Improvement, University of Derby, U.K. He earned his Ph.D. in Management Science from Indian Institute of Information Technology and Management, Gwalior, India. He did his graduation in Mathematics (Hons) and MSc (Mathematics) from Kurukshetra University, India. He earned his Master of Business Administration (MBA) and qualified National Eligibility Test (NET), June 2011. He has contributed over 95+ research papers in international referred & national journals, and conferences at the international and national level. He has sound analytical capabilities to handle commercial consultancy projects and to deliver business improvement projects. He has skills and expertise in Advance Statistics Models, Multivariate Analysis, Multi-Criteria Decision Making, Fuzzy Theory, Fuzzy Optimisation, Fuzzy Multi-Criteria Decision Making, Grey Theory and Analysis, Machine Learning, Application of Soft-Computing, Econometrics Models etc. His areas of research are sustainability, green/sustainable supply chain management, customer retention, green purchasing behaviour, sustainable development, circular economy, Industry 4.0, performance measurement, human capital in supply chain and operations and integration of operation area with other areas.

Dr. Sunil Luthra
Director-Principal
Ch. Ranbir Singh State Institute of Engineering & Technology
Jhajjar, Haryana, India

Dr. Sunil Luthra is working at Ch. Ranbir Singh State Institute of Engineering & Technology, Jhajjar, Haryana, India. He is also Visiting Research Professor at the ‘Centre for Supply Chain Improvement, University of Derby, Derby, United Kingdom. He has contributed over 250 research papers in international referred and national journals, and conferences at international and national level. He has an excellent research track record (received more than 7009 citations on Google Scholar; H-index – 45 on Google Scholar). He has received many Awards and Honours for the research and teaching. He is as a Guest Editor of many reputed international referred & national journals. He is on editorial board of many reputed journals. He has published 06 books with reputed publishers such as CRC Press, Taylor & Francis Group, LLC and New Age International Publisher (P) Ltd. etc.

His research interests are: Productions & Operations Management; Sustainable Production and Consumption; Green/Sustainable/Circular Supply Chain Management; Sustainable societies etc.

Global Engineering Education Panel
7:00 – 8:40 pm, Tuesday, August 3 – Room 1

Panel Chair:

Dr.-Ing. Patrick Dallasega
Assistant Professor
Industrial Engineering and Automation
Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen-Bolzano Italy

Patrick Dallasega is an Assistant Professor of Factory Planning and Project Management at the Faculty of Science and Technology of the Free University of Bozen (Italy). He studied at the Free University of Bolzano (Italy), at the Polytechnic University of Turin (Italy) and got his PhD at the University of Stuttgart (Germany). From 2005 until 2010, he worked in the fields of plant and factory planning in a local food processing industry. Later, from 2012 until 2015, he was employed as Research Associate at Fraunhofer Italia Research where he managed and executed several research projects for private and public customers. Since 2016, he has been employed as Assistant Professor at the Free University of Bozen-Bolzano. His main research interests are in, supply chain management, Industry 4.0, lean construction, lean manufacturing and production planning and control in MTO and ETO enterprises.
Haleh Byrne
Product Lead - Industrial & Systems Engineering & Student Projects
North Carolina State University
Raleigh, North Carolina, United States

Haleh leads a wide spectrum of industrial engineering services and projects. She engages NCSU students as part of her project teams in the areas of productivity and quality improvements, costing, facilities layout, process & training, ergonomics assessment, and scheduling, as well as client-customized projects. She also provides lean, statistical process control, measurement systems analysis, and work measurement training in conjunction with Timer Pro (video analysis software) Workshops as well as related implementation events.

Past Experiences: Haleh has more than 20 years of experience in diverse industries as an industrial/product/quality engineer. She worked at Flextronics in Youngsville as a product engineer. Her prior work history includes being an industrial engineer at the United States Postal Service in Los Angeles, an industrial/quality engineer at General Motors, an industrial engineer at Monsanto Electronic Materials in St. Louis, and an industrial/quality engineer at now closed Buehler Products in Cary.

Degrees: Haleh obtained her BS in industrial engineering from NC State University. She is an ASQ certified quality engineer, and is SME bronze lean certified. She also has extensive training and experience in statistical engineering as well as project management. She is currently IIE Raleigh Chapter President and Lean Division Board Director at Institute of Industrial Engineers. She served as Education Chair for ASQ Raleigh Chapter 2009-2012. She has presented in many IIE annual and Lean Six Sigma conferences.

Honorary Chair, Chief Mentor & Senior Advisor, Core Advisory Committee at the World Assessment Council
Consultant, Horizon 2020
Adjunct Professor, University of Maryland University College
Lynchburg, Virginia, United States

Professor Eduard Babulak, is accomplished international scholar, researcher, consultant, educator, professional engineer and polyglot, with more than thirty years of experience. He served as successfully published and his research was cited by scholars all over the world. He serves as Chair of the IEEE Vancouver Ethics, Professional and Conference Committee. He was Invited Speaker at the University of Cambridge, MIT, Purdue, Yokohama National University and University of Electro Communications in Tokyo, Japan, Shanghai Jiao Tong University, Sungkyunkwan University in Korea, Purdue, Penn State in USA, Czech Technical University in Prague, University at West Indies, Graz University of Technology, Austria, and other prestigious academic institutions worldwide.

His academic and engineering work was recognized internationally by the Engineering Council in UK, the European Federation of Engineers and credited by the Ontario Society of Professional Engineers and APEG in British Columbia in Canada. He was awarded higher postdoctoral degree DOCENT - Doctor of Science (D.Sc.) in the Czech Republic, Ph.D., M.Sc., and High National Certificate (HNC) diplomas in the United Kingdom, as well as, the M.Sc., and B.Sc. diplomas in Electrical Engineering Slovakia.

He serves as the Editor-in-Chief, Associate Editor-in-Chief, Co-Editor, and Guest-Editor. He speaks 16 languages and his biography was cited in the Cambridge Blue Book, Cambridge Index of Biographies, Stanford Who’s Who, and number of issues of Who’s Who in the World and America. Professional Member: Fellow of the Royal Society RSA, London, UK; Chartered Professional IT Fellow, Mentor and Elite Group Member of British Computer Society, London, UK, Invited Panel Member for National Science Foundation Graduate Research Fellowship Program, USA; Expert Consultant for EU HORIZON 2020 & CORDIS FP6 - FP7 European Commission, Brussels, Belgium • Mentor and Senior Member of the IEEE and ACM, USA; Nominated Fellow of the Institution of Engineering and Technology, London, UK and Distinguished Member of the ACM, USA; Chartered Member of the IET, London, UK; Professional Member of American Society for Engineering Education, American Mathematical Association, and Mathematical Society of America, USA.

Ismail Suardi Wekke
Institut Agama Islam Negeri (IAIN) Sorong
Sorong, 98417, Indonesia

The Development of Yapis for Higher Education on Science and Technology in Tanah Papua

Ismail Suardi Wekke is an Assistant Professor, Postgraduate Department of Institut Agama Islam Negeri (IAIN) Sorong, West Papua, Indonesia. He started his higher education in Institut Agama Islam Negeri Alauddin Ujungpandang. When he was on undergraduate program, he was the first rank of student achievement. When he is on the master program in Sekolah Tinggi Agama Islam Negeri (STAIN) Malang, he was the second master of arabic teaching in eastern region of Indonesia. He earned his PhD in National University of Malaysia under Ford Foundation International Fellowship Program. He served as Director of Quality Assurance, Sekolah Tinggi Agama Islam Negeri (STAIN) Sorong from 2010 to 2017. 2020, Ministry of Research, and Technology, The Republic of Indonesia acknowledge him among top 50 researcher and lecturer around Indonesia. He appointed as Adjunct Professor in The University College of Yayasan Pahang, Malaysia. As the postgraduate of doctoral program lecturer, he teaches in Universitas Muhammadiyah Parepare; and Universitas Islam Negeri Antasari, Banjarmasin.

His research interests include education, religious studies, and gender. He is member of Dosen Indonesia Semesta, and Dosen Insan Cita Indonesia. For his community service, he is co-founder of Sekolah Islam Terpadu Nusabrain, Makassar. The latest development is establishment Institut Sains dan Teknologi An-Nuriyah, Makassar.
Panel Speaker IV

Professor Seifedine Kadry
Department of Applied Data Science
Noroff University College
Kristiansand, Norway

Dr. Seifedine Kadry has a Bachelor degree in 1999 from Lebanese University, MS degree in 2002 from Reims University (France) and EPFL (Lausanne), PhD in 2007 from Blaise Pascal University (France), HDR degree in 2017 from Rouen University. At present, his research focuses on Data Science, education using technology, system prognostics, stochastic systems, and applied mathematics. He is an ABET program evaluator for computing, and ABET program evaluator for Engineering Tech.

Panel Speaker V

PANEL on Industry 4.0
5:00 – 6:45 pm, Wednesday, August 4 – Room 1

Panel Chair

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

The role of learning factory labs for teaching Industry 4.0

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

Panel Speaker I

Junior A. Bennett, P.E., CMfgE, CMfgT, M.Sc, B.Ed, SYL, MJIE, MSME
Lecturer/SOE Work Experience Coordinator
Leader, UTech Ja Productivity Research Group
Productivity Ambassador
Industrial Engineering Department, School of Engineering
Faculty of Engineering and Computing
University of Technology, Jamaica

Mr. Junior Bennett is an Industrial Engineering Lecturer and Leader of the UTech Ja Productivity Research Group at the University of Technology, Jamaica. He earned a Bachelor of Education in Industrial Technology – Electrical from the University of Technology, Jamaica, and a Master of Science in Manufacturing Engineering Systems from the Western Illinois University. He is the First Jamaican to be certified as a Manufacturing Engineer (CMfgE) by the Society of Manufacturing Engineers (SME). He is credited for the establishment of the UTech Ja Society of Manufacturing Engineering Student Chapter S430 and was former Faculty Advisor.

He is a former council member and corporate member of the Jamaican Institution of Engineers (JIE) and represents JIE on the National Commission of Science and Technology. He is a Registered Industrial Engineer with the Professional Engineering Registration Board and member of IEOM, SME and IISE.

He has been lecturing in the areas of physics, mathematics, engineering, and management for over a decade. In 2019, Mr. Bennett was the recipient of the UTech Ja President Award for Outstanding Community Service. He has been inducted as one of Jamaica’s Productivity Ambassador by the Jamaica Productivity Centre (JPC) and periodically writes for The Sunday Gleaner as guest columnist for Engineers’ Angle. He is an Assistant Chief Examiner for a technical subject in CAPE at the Caribbean Examination Council (CXC) and External Examiner for the Joint Board for Teacher Education (JBYTE).

His research interests are productivity improvement, operations research, manufacturing, Industry 4.0 and quality control management.
Panel Speaker II

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

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

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

Dr. Agrawal provides service to the industries (including SME industries) by sharing his expertise and competence of his experience to diagnose and solve industrial problems objectively in selected areas of industrial engineering, Automation and Automation. Dr. Agrawal research work focuses on Process Improvement initiatives for productivity enhancement. Through Consulting, Workshop & Training, he applies his skills and experience to those components that profoundly affect an organization's performance and provide a direction for growth and success. One of the objectives of his current research is to address conversion quickly for the production of new product by providing customized flexibility and can be improved , upgraded and reconfigured in response to fluctuating demands for automotive companies situated in India

Panel Speaker III

Prof. Adil Matin  
President & Chief Editor  
WeTel TV, Nest Film Academy Dubai, World Design Foundation  
Dubai, United Arab Emirates  

Prof. Adil Matin, President of WeTel Television – the only English Satellite TV channel of UAE, available on Etisalat Elfie channel 336 in UAE. He is Director of WeTel Design Foundation, Nest Academy higher education UAE. Professor Matin holds over 20 years of experience in the field of media and communication and as filmmaker, he has produced more than 30 documentary films and over hundreds of television programs. He was awarded for his best documentary films on “Tsunami in Indian Ocean” in collaboration with “Save The Children” Sweden, and documentary film commissioned by European Commission for Humanitarian Aid and Civil Protection based on life of Women & Children and Armed Conflict in Northeast State of India. And holds a masters degree in Mass Communication, diploma in computer electronics and his PhD topic - in social media.

Panel Speaker IV

Prof. Dr. Till Becker  
Faculty of Business Studies  
University of Applied Science Emden/Leer  
Germany  

Till Becker graduated in Information Systems at the University of Münster, Germany. He joined PricewaterhouseCoopers as IT-Consultant and IT-Auditor before he returned to academia to receive his PhD in International Logistics from Jacobs University in Bremen, Germany. Subsequently, he was appointed Professor of the “Production Systems and Logistic Systems” research group at the University of Bremen, Germany. Currently, he is Professor of Information Systems at the Faculty of Business Studies at the University of Applied Sciences in Emden, Germany.  

The research focus of Till Becker is the investigation of the interdependencies between the structure and the dynamic behavior of complex material flow networks. He is also working on data-driven solutions in the fields of data science and machine learning as part of digitalization efforts in companies.
Dr. Poti Chaopaisarn
Assistant Professor
Department of Industrial Engineering
Faculty of Engineering
Chiang Mai University
Chiang Mai, THAILAND

Poti Chaopaisarn is an Assistant Professor and Researcher at Department of Industrial Engineering, Faculty of Engineering at Chiang Mai University, Chiang Mai, Thailand. Dr. Chaopaisarn holds a Bachelor in Business Administration in Marketing from Thammasat University, Bangkok, Thailand, a Master of Science Degree in International Transport, a Master of Philosophy Degree in Social Science Research Method and a Ph.D. in Logistics and Operations Management from Cardiff University, Wales, United Kingdom. He has published in journal and conferences and has conducted research projects domestically and internationally. He has over 10 years of business and industrial operation consultancy experience in Thailand. His research interests include logistics and supply chain management, operations management, simulation and modeling, multimodal transport system and business improvement theory. He is a member of Excellence Centre in Logistics and Supply Chain Management, programme chair of ICLT and MPM.

Diversity and Inclusion Panel sponsored by Ford Motor Company
7:00 – 9:00 pm, WEDNESDAY, August 4, Room 1

Panel Chair

Dr. Matteo Mario Savino
Professor of Industrial Operations and Industrial Management
University of Sannio
Benevento, Italy

Matteo Mario Savino is a Professor of Industrial Operations and Industrial Management at the University of Sannio. He received a PhD in Industrial plants in 1999 at the University Federico II of Naples, Department of Design and Industrial Engineering. Among his research interests there are Project Management, Risk Assessment, Quality aspects related to industrial production. He has managed several National and EU Funded research and educational projects. Since 2008 he has been a Delegate of the Rector for Quality Assurance and is the President of the University Quality Centre. He is the author of more than 50 Scientific Publications and participates in International Journals and International Peer Review proceedings.

Panel Speaker I

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

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education.

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

Panel Speaker II
Dr. Ximena Córdova Vallejo
Profesora
Colegio de Ciencias e Ingenierías, Politécnico
Universidad San Francisco de Quito
Ecuador

Ximena M. Córdova, Ph.D., was the first woman to graduate in Mathematics from the National Polytechnic School, Quito-Ecuador. She has a Master's in Quality, Management and Productivity and a Master’s in Actuarial Sciences from The University of Iowa, Iowa, USA. She holds a Ph.D. in Industrial Engineering from Wichita State University, USA. She was also the first woman to hold the position of Provost at the San Francisco de Quito University (USFQ) until 2020. She has served as a Professor at the San Francisco de Quito University for more than 20 years and was Dean of the School of Engineering of the College of Sciences and Engineering. She is currently a Senior Professor in the Department of Industrial Engineering. She is one of the founders of the project "Women in Science and Engineering", WISE, to encourage women to study in the areas of science and engineering. She has managed to influence at least 5 female alumni of the USFQ of Industrial Engineering to obtain their Ph.D. in Engineering and for many graduates to continue their four-level studies. Her research is applied to Green Supply Chains through the modeling, analysis and optimization of logistics systems using CO2 emissions as a performance measure and the use of Ecuadorian anthropometry data for the ergonomic design of work spaces.

Panel Speaker III

Dr. Rubén Elvira Herranz
Program Manager for Middle East
Airbus Defence & Space
Dubai, UAE

Dr. Rubén Elvira Herranz is teaching in various universities in Spain (Carlos III University in Madrid, Instituto de Estudios Bursátiles, Technical University of Madrid) and Business School (Institute for Advance Management – CEU) in the areas of Project Management, Operations Management, Finance and Geoeconomy. As well he has published some of his works in top ranked journals.

In his professional life Dr. Elvira is Program Manager for Middle East in Airbus Defence & Space.

Dr. Elvira is holding a PhD in Business Administration, various MSc (Industrial Management, Business Administration, Machines and Transportation) and a Bachelor in Aerospace Engineering, all from various universities. Also is certifed as PMP ®.

Panel Speaker IV

Daniel Hodges
Product Design Engineer
Brasscraft Manufacturing Company (a Masco Company)
Novi, Michigan, USA

Daniel Hodges is a Product Design Engineer with Brasscraft Manufacturing Company (a Masco Company). He received his Bachelors of Science in Mechanical Engineering from Michigan State University and his Masters of Science in Mechatronic and Robotic Systems Engineering from the Lawrence Technological University. He is a recipient of the Brasscraft Robert M. Zell Award for Quality in 2017 for his passion in Quality and Innovation. He is further recognized on patents for Excess Flow and Thermal Valves, Gas-Liquid Separator with Expansion Transition Flow, Inertial Gas-Liquid Impactor Separator with Flow Director, Gas-Liquid Separator with Dual Flow Impaction and Coalescence, Inertial gas-liquid impactor separator with flow director and others.

Daniel is a Certified Six Sigma Green Belt with Product Management Credentials from PMI. His work experience has ranged from Nuclear, Aerospace, Automotive, Appliance, and Plumbing. Through his career he has held technical roles in Reliability, Product Design, Quality and Project Management.

Panel Speaker V
Panel Sessions

Women in Industry and Academia (WIIA) Panel
10:00 – 11:45 am, THURSDAY, August 5 - Room 5

Panel Chair

Professor Linda Zhang
Full Professor of Operations Management
Department of Management
IESEG School of Management
Paris, France

Professor Linda Zhang is full professor of Operations Management of Department of Management, IESEG School of Management, France. She got PhD degree of industrial engineering at Nanyang Technological University, Singapore and BEng degree of Industrial Engineering at Tianjin University, China. She has published more than 20 articles in the high-level journals such as IIE Transactions, Decision Support Systems, European Journal of Operational Research, International Journal of Production Research, etc. Prof. Linda Zhang has received many academic awards such as IIE Transactions: A Feature Article in Oct 2009, Best Paper Award at WMSCI 2008, Emerald LiteratiNetwork Highly Recommended Award 2007, Outstanding Paper Award at IEEM 2010, IEEE Technology Management Council Singapore Chapter Best Student Paper Award 2009/2010.

Panel Speaker I

Dr. Rubee Singh
Assistant Professor in HR
Institute of Business Management
GLA University
New Delhi, Delhi, India

Managing of HRM in 21st Century

Panel Speaker II

Dr. Sara Shafiee
Researcher/Assistant Professor
Department of Mechanical Engineering
Engineering Design and Product Development
Technical University of Denmark
Lyngby, Denmark

Women in STEM Part I: Different types of biases, awareness and solutions

Women in STEM Part II: Challenges, experiences, and journey of a female entrepreneur

Sara Shafiee is a Researcher/Assistant Professor at the Technical University of Denmark. Sara holds a Ph.D. in management engineering and Technology Development and has +8 years of experience as an IT project manager and consultant in the industry and academia with more than 20 articles in high-level journals. Sara has received several academic awards and is the winner of the Alexander Foss Award in 2017 and the Innovation Fund Denmark’s best Industrial Researcher Prize in 2018. She was one of the five official finalists of the SDG Tech Awards 2020. She is also appointed as one of the eight ambassadors of Innovation Fund Denmark since 2018, Inno-women, with the mission to perform as the visible role model for potential females applications. Aligned with her motivations, she founded her company DivERS in 2021, which provides a systematic approach during the recruitment process to improve the quality of employment by eliminating biases regarding gender, age, race, etc. In 2021, DivERS was awarded the best Digital National Startup by Venture Cup Denmark.

Panel Speaker III
Panel Sessions

Dr. Hui Nee AU YONG
Dean
Department of Economics
Faculty of Business and Finance
Universiti Tunku Abdul Rahman
Kuala Lumpur, Malaysia Denmark

Board gender diversity and financial performance in consumer product and property companies

Associate Professor Dr. Au Yong Hui Nee holds a PhD degree from Universiti Sains Malaysia and a graduate of MA Economics from University of Tsukuba in Japan. She is an associate professor at the Faculty of Business and Finance, Universiti Tunku Abdul Rahman (UTAR). She was sponsored to attend Impact Evaluation Methods by World Bank Group and Women’s Director Programme by the Ministry of Women, Family and Community Development (KPWKM).

Dr. Au Yong was trained in commercial and investment banks. Prior to joining academia, she held managerial positions at Fortune 500 multinational corporations and a state agency. She has close to two decades of extensive experience managing information system, environment safety & health and supply chain & logistics and compliance risk management. She was a registered Safety and Health Officer, an IRCA Quality Lead Auditor and management representative of ISO9001, ISO14001 and OHSAS18001.

Furthermore, Dr. Au Yong has published over thirty articles in SSCI/Scopus-indexed journals. She serves as a chief editor of China's Belt and Road Initiative book published by World Scientific Publishing (Singapore), an editor for five international journals and a reviewer for fifteen SSCI/SCIE-indexed international journals. She has completed research and consulting projects for local and international clients (Japan and Pakistan). She has received over USD150,000 of research grants. She is a recipient of Malaysian Institute of Management Tun Razak Youth Leadership Award, Japanese Government Monbukagakusho (MEXT) Scholarship, excellent participant award of BIOMA (Biogas Institute of Ministry of Agriculture and Rural Affairs China), best oral presentation award and best paper awards in South Korea and United Kingdom.

Panel Speaker IV

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

How education is becoming more challenging in pandemics like COVID-19.

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, IIEOM, IIE, and INFORMS.

Panel Speaker V

Dr. Elizabeth Cudney
Associate Professor of Business Data Analytics
John E. Simon School of Business
Maryville University
St Louis, Missouri, United States

Dr. Elizabeth Cudney is an Associate Professor of Business Data Analytics in the John E. Simon School of Business at Maryville University. She received her B.S. in Industrial Engineering from North Carolina State University, Master of Engineering in Mechanical Engineering and MBA from the University of Hartford, and doctorate in Engineering Management from the University of Missouri – Rolla. She received the 2020 Walter E. Masing Book Prize from the International Academy for Quality for her book on Lean Six Sigma. In 2018, Dr. Cudney received the ASQ Crosby Medal for her book on Design for Six Sigma. Dr. Cudney received the 2018 IIESE Fellow Award. She also received the 2017 Yoshio Kondo Academic Research Prize from the International Academy for Quality for sustained performance in exceptional published works. In 2014, Dr. Cudney was elected as an ASEM Fellow. In 2013, Dr. Cudney was elected as an ASQ Fellow. In 2010, Dr. Cudney was inducted into the International Academy for Quality. She received the 2008 ASQ A.V. Feigenbaum Medal and the 2006 SME Outstanding Young Manufacturing Engineering Award. She has published nine books and over 95 journal papers. Dr. Cudney is a certified Lean Six Sigma Master Black Belt. She holds eight ASQ certifications, which include ASQ Certified Quality Engineer, Manager of Quality/Operational Excellence, and Certified Six Sigma Black Belt, amongst others.
# Parallel Sessions

**August 2, 2021 (Monday)**

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<tr>
<td>8:00 – 9:45 am</td>
<td>Undergraduate Student Paper Competition</td>
<td>Master Thesis Competition</td>
<td>Case Studies</td>
<td>Business Management</td>
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<tr>
<td>10:00 – 11:45 am</td>
<td>Undergraduate Student Paper Competition</td>
<td>Doctoral Dissertation Competition</td>
<td>Supply Chain</td>
<td>Case Studies</td>
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<tr>
<td>12:00 – 1:45 pm</td>
<td>Undergraduate Research Competition</td>
<td>Graduate Student Paper Competition</td>
<td>Case Studies</td>
<td>Industrial Management</td>
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<tr>
<td>2:00 – 3:45 pm</td>
<td>Undergraduate Research Competition</td>
<td>Human Factors and Ergonomics Competition</td>
<td>Industry 4.0</td>
<td>Knowledge Management</td>
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<tr>
<td>4:00 – 5:45 pm</td>
<td>Undergraduate Student Paper Competition</td>
<td>High School STEM Competition</td>
<td>Operations Management</td>
<td>Lean</td>
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<tr>
<td>6:00 – 7:45 pm</td>
<td>Undergraduate Student Paper Competition</td>
<td>Simulation Competition</td>
<td>Engineering Education</td>
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**CUTME Workshop - Managing Student Teams – Room 6**

**August 3, 2021 (Tuesday)**

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<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Global Engineering Education I</td>
<td>Poster Competition</td>
<td>Lean</td>
<td>Occupational Health and Safety (OHS)</td>
</tr>
<tr>
<td>10:00 – 11:45 am</td>
<td>Global Engineering Education II</td>
<td>E-Business and E-Commerce</td>
<td>Industrial Management</td>
<td>Service Systems and Service Management</td>
</tr>
<tr>
<td>12:00 – 1:45 pm</td>
<td>Global Engineering Education III</td>
<td>Case Studies</td>
<td>Data Analytics and Big Data</td>
<td>Design</td>
</tr>
<tr>
<td>2:00 – 2:20 pm</td>
<td>Welcome Address: Prof. Livio De Santis</td>
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<tr>
<td>3:00 – 4:30 pm</td>
<td>Keynote II: Dr. Tomohiko Sakao</td>
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<tr>
<td>4:40 – 5:30 pm</td>
<td>Keynote IV: Dr. Donald Huisenga</td>
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</tr>
<tr>
<td>5:00 – 6:45 pm</td>
<td>Global Engineering Education IV - PANEL</td>
<td>Supply Chain and Logistics Competition</td>
<td>Energy</td>
<td>Lean</td>
</tr>
<tr>
<td>7:00 – 8:45 pm</td>
<td>Global Engineering Education V</td>
<td>Supply Chain and Logistics Competition</td>
<td>Sustainability in Operations</td>
<td>Modeling and Simulation</td>
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**August 4, 2020 (Wednesday)**

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<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Industry Solutions and Industry 4.0 - I</td>
<td>Reliability and Maintenance</td>
<td>Business Management</td>
<td>E-Business and E-Commerce</td>
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<tr>
<td>10:00 – 11:45 am</td>
<td>Industry Solutions and Industry 4.0 - II</td>
<td>Lean</td>
<td>Technology Management</td>
<td>Manufacturing</td>
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<tr>
<td>12:00 – 1:45 pm</td>
<td>Industry Solutions and Industry 4.0 - III</td>
<td>Design</td>
<td>Energy and Resource Efficiency</td>
<td>Operations Research</td>
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<tr>
<td>2:00 – 2:20 pm</td>
<td>Welcome Address - Room 1</td>
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<tr>
<td>2:20 – 3:30 pm</td>
<td>Keynote V: Dr. Jihong Yan</td>
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<tr>
<td>3:30 – 4:30 pm</td>
<td>Keynote VI: Dr. Joseph Sarkis</td>
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<tr>
<td>4:40 – 5:30 pm</td>
<td>Keynote VII: Professor George Bousharas</td>
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<tr>
<td>4:40 – 5:30 pm</td>
<td>Keynote VIII: Corrado La Forgia</td>
<td>VP Operations Management</td>
<td>Managing Director, BOSCH VHIT – CR, Offanengo, Lombardy, Italy</td>
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<tr>
<td>5:00 – 6:45 pm</td>
<td>Industry 4.0 PANEL</td>
<td>Senior Design Competition</td>
<td>Operations Research</td>
<td>Business Management</td>
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<tr>
<td>7:00 – 8:45 pm</td>
<td>Panel Diversity and Inclusion</td>
<td>Lean Six Sigma Competition</td>
<td>Sustainable in Supply Chain</td>
<td>Manufacturing</td>
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**August 5, 2020 (Thursday)**

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<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Global Supply Chain and Logistics I</td>
<td>Operations Management</td>
<td>IoT</td>
<td>Business Analytics</td>
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<tr>
<td>10:00 – 11:45 am</td>
<td>Global Supply Chain and Logistics II</td>
<td>Waste</td>
<td>Systems Engineering</td>
<td>Transportation and Traffic</td>
</tr>
<tr>
<td>12:00 – 1:45 pm</td>
<td>Global Supply Chain and Logistics II</td>
<td>Business Management</td>
<td>Logistics</td>
<td>Entrepreneurship and Innovation</td>
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<tr>
<td>2:00 – 2:20 pm</td>
<td>Conference Chairs’ Remarks – Room 1</td>
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<tr>
<td>2:20 – 3:30 pm</td>
<td>Keynote IX: Dr. Fatma H. Ashour</td>
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<td>3:30 – 4:30 pm</td>
<td>Keynote X: Franco Mogali</td>
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<tr>
<td>4:20 – 5:00 pm</td>
<td>Keynote XII: Dr. Saurin Tarcisio Abreu</td>
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<tr>
<td>5:00 – 7:00 pm</td>
<td>Conference Awards Ceremony – Virtual</td>
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</table>
August 2, 2021 (Monday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY  Undergraduate Student Paper Competition  Room 1
Session Chair: Dr. Mizanur Rahman, UTM

ID 342  Diet Optimization Using Linear Programming to Develop Low Cost with Sufficient Nutrients Meal Plan for the 10 day Feeding Program
John Raphael G. Cainglet, Danielle Anne Mae C. Lavapie, and Jhersy Joy B. Sadaclan, La Consolacion University Philippines, Malolos City of Bulacan, Philippines

ID 368  Evaluating the Impact of Workplace Challenge, (A Government Initiative) To Make the Local Manufacturing Companies World Class And Competitive
David Munyai, and Mushavhanamadi Khathu, Faculty of Engineering and Built Environment Department of Quality and Operations Management University of Johannesburg, South Africa

ID 586  Giving Hands: A New Developed prosthetic hand for amputees
Alaa Hamed Omar Hassan, Dakahlia STEM High School, Mansoura, Dakahlia, Egypt

ID 393  High-Profit Investments During COVID-19 in Stocks and Cryptocurrency
Sobhi Mejjaouli, Assistant Professor, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia
Joseph Taha Almudawah, Ibrahim Hamdan and Zaid Yaseen, Mechanical Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 600  Line Start Permanent Magnet Synchronous Motor for Underground Mining Drive Application
Dinh, Bui Minh, Quyet, and Dinh Xuan Department of Electrical Machines and Drives, Hanoi University of Science and Technology, Hanoi, Vietnam

ID 539  Modular Construction of COVID-19 Hospital
Mustafa Salsal Yousif Al-Ani, Undergraduate student, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE
Saleema Panda, Assistant Professor, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE

ID 727  Malicious URL Classification Using Extracted Features, Feature Selection Algorithm, and Machine Learning Techniques
Jo Simon Ambata, Jose Gaurana, Dan Jacinto, and Joel De Goma, School of Information Technology Department, Computer Science, Mapúa University, Makati, Philippines

8:00 – 9:45 am, MONDAY  Master Thesis Competition  Room 2
Session Chair: Dina Nurul Fitria, Universitas Pertamina, Indonesia

ID 292  Analysis and Improvement of Product Management Processes – a Case Study
Francisco Leite (1) and José Faria (1, 2) and Américo Azevedo (1, 2)
(1) Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, s/n, 4200-465 Porto, Portugal
(2) INESC TEC, Rua Dr. Roberto Frias, Campus da FEUP, 4200-465 Porto, Portugal
Ivo Pereira, Polytechnic of Porto, Engineering Institute, Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal

ID 533  EMV& Biometric for Secure Online Purchases
Youness Ridani  SEDCO Technologies  Ifrane  Fes-Meknes RegionMorocco

ID 458  Inventory Management Sourcing Policy Selection: A Focus on Wastewater Infrastructure
Mohammed Maharooof and Dr. Laociline Kerbache, Engineering Management & Decision Sciences, College of Science and Engineering Hamad Bin Khaila University (HBKU), Education City, Qatar

ID 458  Impact of Aircraft Model and Delay Duration on the Air Traffic Flow Management
Abdelhamid Boujarif, Industrial Engineering Laboratory, Paris-Saclay University, CentraleSupélec , 91190, Gif-sur-Yvette, France
Sadeque Hamdan, College of Business and Economics, UAE University, Al Ain, United Arab Emirates
Oualid Jouini, Industrial Engineering Laboratory, Paris-Saclay University, CentraleSupélec, 91190, Gif-sur-Yvette, France

ID 244  Klèbun Babine': Absurdity Social Order on Patriarchal Values in Madura East Java Indonesia
Hoiril Sabariman, Student of Master’s Degree Social Science, Brawijaya University, Malang, East Java, Indonesia

ID 080  Maximum Coverage Location Model for Fire Stations with Top Corporate Risk Locations
Abdulaziz S. Alzahrani and Ahmad Al Hanbali, Systems Engineering Department, King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia

ID 528  Metaheuristic Approaches For The Generalized Assignment Problem Of An Online Education Website

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ID 416  Quality and Reliability Analysis for Long-hole Stope Slots: A Case Study at South Deep Gold Mine Based on Drilling and Blasting Practices.
Mzwakhe Tshabalala, Postgraduate School of Engineering Management, University of Johannesburg, South Africa
Jan-Ham Christiansen Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, South Africa

8:00 – 9:45 am, MONDAY  Case Studies  Room 3
Session Chair: Alpha Umaru Bah, Department of Industrial Systems & Engineering, Institut Teknologi Sepuluh Nopember ITS, Surabaya, Indonesia

ID 507  A Case Study of Perceived Effect of Thermal Comfort to the Mental Fatigue Level of Students during Online Class
Deceree Anne A. Haboy, Kirstien Paola E. Robas, Matthew P. Solivio and Ma. Janice J. Gumasing, School of Industrial Engineering and, Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 644  A Comparison of Food Delivery Applications (GrabFood, FoodPanda, and Pick.A.Roo) in the Philippines through Utilization of Analytical Hierarchy Process
Maria Angelica D. Bare, Francee Mae F. Castro, Jan Aldrin V. Dahilig, Jhon Lawrence G. Quimio, and Rianina D. Borres, School of Industrial and, Engineering Management, Mapua University, Intramuros, Manila

ID 635  A Decision Analysis Utilizing the Analytical Hierarchy Process (AHP) in Determining the Optimal Mode of Ordering in McDonald's Between Kiosk Machines and Traditional Cashiers
Maryam G. Irene, Frankern Luis S. Malabuyoc, Ma. Daniella M. Sobrevilla, Madeline Anne Patrice C. Sy, Rianina D. Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 431  A Study of Generic Strategy in Fast Food Company and The Effect of Covid-19 Pandemic: Case Study of Shake Shack’s Competitive Strategy
Maya Sukmawati1, Tsany Naufal H.2, Clara Puspita N.3, Industrial Engineering Department, Universitas Indonesia Kampus UI Depok Jakarta, Indonesia

ID 634  An Adaptation of Industry 4.0: Comparison between the Implemented Queuing System of Land Transportation Office and Proposed System Applying Monte Carlo Simulation, Lean Management, and Analytical Hierarchy Process Method
Kirstien Paola E. Robas, Matthew P. Solivio, Deceree Anne A. Haboy, Christine Angelie Y. Taw, Rianina D. Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 754  An Investigation of Biodiversity and Genetic Resources: The Importance of Legal Protection in Indonesia
Y. Yulia, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24355, Indonesia, Jumadi Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 755  Impact of Covid-19 on the Sierra Leone Brewery Limited Supply Chain
Alpha Umaru Bah and I. Nyoman Pujawan, Department of Industrial Systems & Engineering, Institut Teknologi Sepuluh Nopember ITS, Surabaya, Indonesia

8:00 – 9:45 am, MONDAY  Business Management  Room 4
Session Chair: Muhammad Ikhsan Setiawan, Narotama University, Indonesia

M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 617  An Analysis of the Impact of Culture on McDonald’s Consumer Behaviour in Indonesia
Arlenea Halyda Herdimansyah, Undergraduate Program, School of Business and Management, Bandung Institute of Technology, BA International Business, University of Hull

ID 274  An Analysis on Corruption Indication Effect toward Development in East Indonesia Region (Education, Health, and Road Infrastructure Sectors)
Amran Husen, Faculty of Economics, Khairun University, Bangladesh

ID 619  Analysis of the Adoption of Globalgap Certification in Pakistan
Muhammad Bilal Inshad, Maimunah Ali and Muhammad Imran, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400, Parit Raja Johor, Malaysia
Amjad Masood, Department of Business Studies, Bahria Business School, Islamabad Campus, Bahria University, Islamabad, Pakistan

ID 622  An Analysis of the Impact of Social Media Marketing Activities on Unilever Brand Awareness in Indonesia
Mohammad Alifasya Atalario, Undergraduate Program, School of Business and Management, Bandung Institute of Technology, BA International Business, University of Hull

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ID 759  Soft Skills Improvement Of Youth Organization: Entering The Work Environment
Salmah, and Fredi Andria, Department of Management, Faculty of Economics and Business, Pakuan University, Bogor, Indonesia, Amelia Rahmi, Department of Accounting, Faculty of Economics and Business, Pakuan University, Bogor, Indonesia

ID 806 The Effect of Reward and Individual Ability on Employee Performance Through Job Satisfaction at the Office of the Human Resources Development Agency of South Sulawesi Province
Cicilia Hartutik, Nasruddin Nawawi, Mansur Azis
Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Firman H Sekolah Tinggi Ilmu Administrasi Puangrimagagalatung, Makassar, Indonesia

ID 760 Implementation Of Criminal Sanctions In Law Number 6 Of 2018 Concerning Health Quarantine For Large-Scale Social Restriction Breakers In The Jabodetabek Area
Sapto Handoyo DP and Nazaruddin Lathif, Departement of Law, Faculty of Law, Pakuan University, Bogor Indonesia

8:00 – 9:45 am, MONDAY  Artificial Intelligence  Room 5
Session Chair: K.I. Ridmika, University of Moratuwa, Sri Lanka

ID 338  Implementing AHP Analysis to Increase the Detection Accuracy for Drone Detection System
AbdulAziz Bin Shuhaywin and Faisal AlMeshkhas, Engineering and Systems Management Students, College of Engineering, Alfaisal University Riyadh, Al-Zahrawi Street 11533, KSA
Sobhi Mejjaouli, Assistant Professor, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

ID 010 Investigating the impact of Artificial intelligence adoption and education systems: A case of the University of Johannesburg in South Africa
Genevieve Bakam Fotso
Innocents E EDOUN

ID 011 Investigating the Impact of Artificial Intelligence on Operations Management: A Case of Selected Pretoria Based Corporates
Genevieve Bakam Fotso, Innocents E Edoun, Charles Mbohwa, Faculty of Engineering and Build Environment, University of Johannesburg

ID 666  Power Optimization in Transistor Circuit Using Neural Network and Design Of Experiments
Tarani Kanth Kamma, Assistant Professor, Department of Mechanical Engineering Vignan Institute of information Technology, Duvvada, Visakhapatnam-17
B Pavani Sri kavya, Assistant Professor, Department of Mechanical Engineering Vignan Institute of information Technology, Duvvada, Visakhapatnam-17
Dr. N V S Shankar, Associate Professor, Department of Mechanical Engineering Vignan Institute of information Technology, Duvvada, Visakhapatnam-17
Ch. Siva Rama Krishna, Associate Professor, Department of Mechanical Engineering Vignan Institute of information Technology, Duvvada, Visakhapatnam-17

ID 006  Relating Failure Rate of Artificial Intelligence (AI) Projects to Strategy of the Firm
RRK Sharma, Alok Kumar Sharma and Ateequr Rahman, IIT Kanpur 208016 India
Vimal Kumar and KK Lai, Chaoyang University of Technology, Taiwan

ID 387 Water Hyacinth (Eichhornia crassipes (Mart)) Detection Using Satellite Image Processing and Artificial Intelligence Method
Atiya Al-Zuheri  NEW BAGHDAD BAGHDAD Iraq

ID 818 The Effect of Psychological Capital on Performance Through Work Capability and Soft Competence of Sub-District Employees in Jeneponto Regency
Arfina, Gunawan B. Ilyas, Syafri Arief, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Harlindah Harmati Arfan, STIE Nobel Indonesia, Makassar, Indonesia

ID 709  Applicability of Artificial Intelligent Techniques for Effective Communication in Green Construction
K.I. Ridmika and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

August 2, 2021 (Monday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, MONDAY  Undergraduate Student Paper Competition  Room 1
Session Chair: Dr. Mizanur Rahman, UTM

ID 557 A Math-Heuristic Approach for a Vehicle Routing Problem
Utku Yavuz, Mehmet Can Aydin, Alp Orhan Özer, Yarkin Akçit, Aslı Errol, Çağla Deniz Özmen, Buse Küşükbükücü, Faculty of Engineering, Industrial Engineering Department, Özyeğin University, Çekmeköy / Istanbul, 34794, TR

ID 322 A Quantitative Study Determining an Optimal Location for a Company to Place a New Factory Through the Use of the Transportation Algorithm and Excel Solver
1Austin Moreira and 2Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Faculty of Engineering and the Built Environment Durban University of Technology, Durban, SA

ID 652  An Assessment Of The Mmda’s Twitter In Disseminating News And Update To The Public
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<td>462</td>
<td>Perceived Effectiveness and Flexibility of Online Learning Compared to Traditional Learning of Engineering Students</td>
<td>John Kristian Bencio, Nicole R. Coca, Christine P. Morta, Rommel Errol San Juan, Roniel Christian A. Tapic,</td>
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<td></td>
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<td>Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of</td>
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<td>the Philippines – Manila, Quiapo, Manila City, Philippines</td>
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<td>289</td>
<td>Physicochemical, Thermal and Rheological Properties Analysis of Pili Tree (Canarium Ovatum) Resin as Aircraft Integral Fuel Tank Sealant</td>
<td>Mark Kennedy E. Bantugon and Noruane A. Daileg</td>
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<tr>
<td>710</td>
<td>The Effect of ESG Rating on Credit Rating</td>
<td>Farhan Aulia Rahman, Yunieta Anny Nainggolan, School of Business and Management, Bandung Institute of Technology,</td>
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<td>Bandung, Indonesia</td>
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<td>711</td>
<td>The Impact in Using Influencers for a Non-Profit Organizations' Campaign (Which Results in Donations)</td>
<td>Alya Salmaa Putri Gunawan, School of Business and Management, Institut Teknologi Bandung / University of Hull,</td>
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<td>Jl. Ganesa No.10, Lb. Siliwangi, Kecamatan Coblong, Kota Bandung, Jawa Barat 40132, Indonesia</td>
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<th>Doctoral Dissertation Competition</th>
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<td>Session Chair: Dina Nurul Fitria, Universitas Pertamina, Indonesia</td>
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<tr>
<th>ID 370</th>
<th>Data-driven throughput bottleneck analysis in production systems</th>
<th>Mukund Subramaniam, Department of Industrial and Materials Science, Chalmers University of Technology</th>
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<td>562</td>
<td>Optimization of consumable consumption in hypermarkets during the Coronavirus pandemic period</td>
<td>Kamilia Filali, Systems Engineering Laboratory, Sultan Moulay Slimane University, Av Med 5, Po Box 591, Pc 23000, Beni Mellal, Morocco</td>
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<td>Zoubida Benmamoun, GS laboratory ENSA, University campus PO Box, Kenitra, morocco</td>
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<td>Hanaa Hachimi, Systems Engineering Laboratory, Sultan Moulay Slimane University, Av Med 5, Po Box 591, Pc 23000, Beni Mellal, Morocco</td>
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<th>10:00 – 11:45 am, MONDAY</th>
<th>Supply Chain</th>
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<th>ID 181</th>
<th>A Health Care Supply Chain Model Using Tabu Search: A Case Study in Bangladesh</th>
<th>Dr. Ferdous Sanwar, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET) Dhaka 1000, Bangladesh</th>
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<td></td>
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<td>Mohammad Ferdous Hasan Shawon, Sayantee Roy and, Zareen Tasnim Safa, Department of Industrial and Production Engineering Military Institute of Science and Technology (MIST), Dhaka 1216, Bangladesh</td>
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<tr>
<td>400</td>
<td>An Evaluation of Supply Chain Management Performance and its Impact on Production Companies in Sierra Leone, taking G. Shankerdas and Sons Ltd</td>
<td>Alimamy Kamara and Sallieu Koroma, Department of Accounting and Finance, Fourah Bay College, University of Sierra Leone, Freetown, Sierra Leone, Alpha Umaru Bah, Department of Industrial Systems &amp; Engineering, Institut Teknologi Sepuluh Nopember ITS., Surabaya, Indonesia</td>
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<tr>
<td>212</td>
<td>Closed-loop Supply Chain for Seawater Desalination: A Performance Measurement Model</td>
<td>Hasan Balfaqih University of Business and Technology Jeddah Makkah Saudi Arabia</td>
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<td>389</td>
<td>Conflict Minerals Supplier due Diligence Process Improvement</td>
<td>Diana Joy Callangan, Maria Victoria Rada, and Maria Janice Gumasing, Master of Engineering – Industrial Engineering, Mapua University, 658 Muralla St, Intramuros, Manila, 1002 Metro Manila, Philippines</td>
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<tr>
<td>550</td>
<td>Evaluation of Sales and Operations Planning Process Using Maturity Models-Case Study</td>
<td>Oumaima Hansali, Samah Ehranimi, Laila El Abbadi, Laboratory of Engineering Sciences, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco</td>
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<tr>
<td>470</td>
<td>Halal Supply Chain from the Operation Research Perspective</td>
<td>Dwi Agustina Kurniawati, Optimization, Operation Research and Industrial System Research Group (2ORIS-RG), Industrial Engineering Department, Faculty of Science and Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indoensia</td>
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<td>636</td>
<td>Application of Analytical Hierarchy Process in the Comparison of Jollibee, McDonald’s, and KFC In-House Online Delivery System</td>
<td>Angelo Luis S. Doctora, William Davin D. Perez, Franco Neil A. Sanchez, Abigail B. Vasquez, Rianina D. Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines</td>
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### Session Chair: Jumadil Saputra, Universiti Malaysia Terengganu, Malaysia

**10:00 – 11:45 am, MONDAY**  
**Case Studies**  
**Room 4**

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<td>627</td>
<td>Automation Transaction of Motor Vehicle Registrations in Land Transportation Office (LTO) of the Philippines</td>
<td>Queen Francisca M. Sablada and Riaihna D. Borres, School of Industrial Engineering and Engineering Management, School of Graduate Studies, Mapua University, Manila, Philippines</td>
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<tr>
<td>440</td>
<td>Business Sustainability During Covid-19 Pandemic: A Case Study from the Indonesian Automotive Industry</td>
<td>Andy Kresna, Diaddra Pramudito, and Naldo Badriansyah, Departemen Teknik Industri, Fakultas Teknik, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia</td>
</tr>
<tr>
<td>743</td>
<td>The Role of Collaborative E-Government in Surabaya Intelligent Traffic System: A Case Study of Surabaya, Indonesia</td>
<td>Irfan Murtadho Yusuf, Retno Sunu Astuti, Kismartini, Faculty of Social and Political Sciences, Universitas Diponegoro, Semarang, Jawa Tengah 50275, Indonesia, Dedy Afrizal, Sekolah Tinggi Ilmu Ekonomi Tuah Negeri Dumi, Sukajadi, Dumai Kota, Kota Dumai, Riau 28812, Indonesia, Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia</td>
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<tr>
<td>753</td>
<td>Optimizing and Digitalizing the Technology-Based Electronic Justice in the 4.0 Era: A Judicial Reform</td>
<td>Eildar Sari and Arif Rahman, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24535, Indonesia, Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia</td>
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<tr>
<td>763</td>
<td>Study of Implementation Planning of Electronic Road Pricing System on Jakarta</td>
<td>Andri Irfan Rifai, Faculty of Civil Engineering and Planning, University of Internasional Batam, Indonesia, Yasmin Ramdian, Muhammad Isradi, Amar Muftidin, Faculty of Civil Engineering and Planning University of Mercubuana, Jakarta, Indonesia</td>
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<tr>
<td>817</td>
<td>Analysis of Training and Development on Performance Through Professionalism and Hard Skill Competence for Civil Service Police Unit in Jenepongo Regency</td>
<td>Suhanawana, Gunawan B. Ilyas, Syafri Arief, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia</td>
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<td>764</td>
<td>Analysis of Pedestrian Services in Metropolitan Cities: Case of Jakarta Business Area</td>
<td>Andri Irfan Rifai, Faculty of Civil Engineering &amp; Planning, University of Internasional Batam, Indonesia, Adinda Fajarika Akhir, Muhammad Isradi, Amar Muftidin, Faculty of Civil Engineering &amp; Planning, University of Mercu Buana Jakarta, Indonesia</td>
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### Session Chair: Carlos Hernandez, Universidad Austral de Chile

**10:00 – 11:45 am, MONDAY**  
**Engineering Economy**  
**Room 5**

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<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>519</td>
<td>Fleet Replacement Analysis by Equivalent Uniform Annual Cost Method</td>
<td>Malek Almobarek, Department of Design, Manufacturing, and Engineering Management, Faculty of Engineering, University of Strathclyde Glasgow, UK</td>
</tr>
<tr>
<td>341</td>
<td>Presenting a Framework of Contributing factors on Generation of Bullwhip Effect Phenomenon in the Supply Chain Using Principal Component Analysis (PCA)</td>
<td>(Case study: The National Iranian oil products Distribution Company (NIOPDC) of Tehran Region) Amir Alavifar, Phd in Energy economics, Moscow State university, CEO and Co-founder of ArtinAzmaMehr, Tehran, Iran</td>
</tr>
<tr>
<td>532</td>
<td>Residential Real Estate Projects: An Engineering Economics Perspective</td>
<td>Omar AlJuraiyed and Ali AlZaeri, College of Engineering, Graduate Studies, Alfaisal University, Riyadh, KSA, Dr. Sobhi Mejjaouli, Industrial Engineering Department, Alfaisal University, Riyadh, KSA</td>
</tr>
<tr>
<td>347</td>
<td>Robust Least Square Estimation Model For Fighting Poverty in Indonesia Case</td>
<td>Sidik Budiono and John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia Perak Samosir, Department of Mechanical Engineering, Institut Teknologi Indonesia, Tangerang Selatan 15314, Indonesia Gidion P. Adirinoko, Department of Management Faculty of Economics and Business, Universitas Kristen Krida Wacana, Jakarta, Indonesia</td>
</tr>
<tr>
<td>350</td>
<td>The Impact of COVID-19 on Businesses: An Online Review</td>
<td>Nasser BinObied, Sadeem Almarri and Faisal Alhumaidi, Engineering and System Management Master's Program College of Engineering, Alfaisal University, P.O. Box 50927, Riyadh, 11533, Sobhi Mejjaouli, Industrial Engineering Department, College of Engineering, Alfaisal University, P.O. Box 50927, Riyadh, 11533</td>
</tr>
<tr>
<td>758</td>
<td>Optimization Regional Original Income (PAD) of Economic Growth Bogor City 2015-2020 (During Covid-19)</td>
<td>Retno Martanti Endah Lestari1, Emadhi Sudarmanto2, Antania Hanjanilia Ristiyana3, Accounting Departement, Economics and Bussiness Faculty, Pakuan University, Bogor, Indonesia</td>
</tr>
<tr>
<td>745</td>
<td>Building Predictive Models for Real Estate Markets using Machine Learning Meta-Algorithms</td>
<td>Carlos Hernandez, Ingrid Rosales, Instituto de Ingenieria Industrial y Sistemas, Universidad Austral de Chile, Valdivia, Chile</td>
</tr>
</tbody>
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### August 2, 2021 (Monday) - Session: 12:00 – 1:45 pm

#### Undergraduate Research Competition

**Room 1**

**Session Chair:** Dr. Mizanur Rahman, UTM

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<tr>
<th>ID</th>
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<tr>
<td>ID 556</td>
<td>Sustainable Echo Absorption Material with Recycled Plastic</td>
<td>Komalpreet Kaur Takhar, Undergraduate student, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE; Dr. Saleema Panda, Assistant Professor, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE</td>
</tr>
<tr>
<td>ID 463</td>
<td>Economic Based Data Analysis on the Performance of the Service Sector: Banking and Finance, Food and Beverages, Transportation Services, and Hotel and Leisure during the Pandemic</td>
<td>John Immanuel R. Carillo, Darwin Lingad, Naerlle Arlent D. Mendoza, Joy Pearl R. Molina, Blessa Marie T. Pura, Renzie Joy O. Redolosa</td>
</tr>
<tr>
<td>ID 388</td>
<td>Preferences and Opinions of the University of Jeddah Students Towards Electronic Exams</td>
<td>Ziyad Ahmed Alghamdi, Ali Yahya Albaheth, Mohammad Talal Himidah, Sultan Jamal Alqahtani, Murad Bazar Andejany, Department of Industrial and Systems Engineering, College of Engineering, University of Jeddah</td>
</tr>
<tr>
<td>ID 625</td>
<td>Recovery of Passenger Demand in the Airline Industry in the Philippines: Application of the Smart Surveillance Helmet</td>
<td>Liezl A. Latchica, Venise Maronne D. Maceda, Judiel Marquee V. Soriano, Vince G.Literal, Alain Julius R. Bernabe, Darren Barroga, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Philippines</td>
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#### Graduate Student Paper Competition

**Room 2**

**Session Chair:** Dr. Eugenio Cavallo, Sapienza – University of Rome

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<th>ID</th>
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<tr>
<td>ID 429</td>
<td>Analysis for Cost Leadership Strategy and Core Competitiveness Points of Air Asia</td>
<td>Arya Ibrahim Aji, Kynanda Ivanid Ramadhan, Lutfie Hidayatullah Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Kampus UI Depok, Depok 16424</td>
</tr>
<tr>
<td>ID 610</td>
<td>Automatic Integration of CAFM and ERP System using Application Programming Interface (API)</td>
<td>Shiela B. Duquez, School of Industrial and Engineering Management, Mapua University, Grace Lorraine D. Intal, School of Information Technology, Mapua University</td>
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<tr>
<td>ID 438</td>
<td>Design for Additive Manufacturing of a horizontal axis wind turbine</td>
<td>Simone Cantarelli, Daniela Francia, Alfredo Liverani, Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, v.le Risorgimento, 2 - 40136, Italy</td>
</tr>
<tr>
<td>ID 602</td>
<td>Influence of Stator/Rotor Poles Switched Reluctance Motor Performances</td>
<td>Dinh, Bui Minh1, Department of Electrical Machnies and Drives, Hanoi University of Science and Technology, No1, Dai Co Viet Street, Hai Ba Trung, Hanoi, Vietnam</td>
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<tr>
<td>ID 521</td>
<td>Material Characterization Analysis of PLA &amp; HTPLA FDM-Sourced Elements with Annealing Procedure and Optimized Printing Parameters</td>
<td>Patrich Ferretti, Christian Leon-Cardenas, Merve Sali, Gian Maria Santi, Francesco Gianese, Giampiero Donnici, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy</td>
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<tr>
<td>ID 538</td>
<td>Metal FDM: Printing Parameters Influence on Overall Part Density</td>
<td>Patrich Ferretti, Christian Leon-Cardenas, Merve Sali, Gian Maria Santi, Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy Emanuelle Maccarelli, Loris Giorgini, Department of Industrial Chemistry “Toso Montanari”, Alma Mater Studiorum University of Bologna Viale Risorgimento, 4 – 40136, Bologna, Italy</td>
</tr>
<tr>
<td>ID 408</td>
<td>Porter’s Five Generic Strategies: A Case Study from Indonesia Automotive Industry Against Covid-19</td>
<td>Wirawan Pratama Suwardi, T C Kusuma, Bagas Muhamad Kartiko, Department of Industrial Engineering, Faculty of Engineering Universitas Indonesia, Kampus UI Depok, 16424, Indonesia</td>
</tr>
<tr>
<td>ID 565</td>
<td>Technology Acceptance and Digital Divide as Correlates of Performance Among Engineering Students and Teachers: Inputs to Educational Technology Acquisition and Adaptation Model</td>
<td>Romalyn L. Galingan, Technological Institute of the Philippines; Pamantasang ng Lungosod ng Marikina, Cubao, Quezon City, Philippines; SSS Village, Marikina City Philippines</td>
</tr>
<tr>
<td>ID 612</td>
<td>Design of Warehouse Management System using Mobile Application for Shoe Manufacturing Industry</td>
<td>ROBIMARL B. TORRES, School of Industrial Engineering and Engineering Management Mapua University 658 Muralia St., Intramuros, Manila 1002, Philippines, MARVIS B. HALILI, School of Industrial Engineering and Engineering Management Mapua University 658 Muralia St., Intramuros, Manila 1002, hilippines, DONILYN D. SALAZAR, School of Industrial Engineering and Engineering Management Mapua University 658 Muralia St.,</td>
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### 12:00 – 1:45 pm, MONDAY  
**Case Studies**  
*Room 3*

Session Chair: Hannelie Nel, University of Johannesburg, Johannesburg, South Africa

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<td>633</td>
<td>Factors Affecting the Efficiency of Online Food Deliveries: A Comparative Analysis among GrabFood, Foodpanda, and Zomato Ph</td>
<td>Nicole Louise Josue and Rianina D. Borres Charlene, School of Industrial Engineering and Engineering Management, Mapua University Manila, Philippines</td>
</tr>
<tr>
<td>640</td>
<td>Impact of Strategy on the Operational and Financial Performances of an Indonesian Coal Mining Company during COVID-19 Pandemic: A Case Study</td>
<td>Chandrika N Hendrawan, Muhammad Y Salam, Riri Fitriana, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Depok, West Java, Indonesia</td>
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<tr>
<td>641</td>
<td>Implementation of Porter Strategy for Paper Company’s Business Sustainability During The Covid-19 Pandemic</td>
<td>Ademas Muhammad Danisworo, M. Fauzan, Yosi Carolina, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Kampus UI Depok, 16424, Indonesia</td>
</tr>
<tr>
<td>643</td>
<td>Predictive Model on the Progression of COVID-19 Symptoms for Patients with Underlying Diseases Lean Manufacturing, Operations Management and Six Sigma Applications</td>
<td>Frances Mari Louise N. De Guzman, Angelica Allei M. Dilay, and Rianiña D. Borres, School of Industrial Engineering and Engineering Management, Mapua University, 658 Muralla St., Intramuros, Manila</td>
</tr>
<tr>
<td>645</td>
<td>Relationship of Noise Level to the Mental Fatigue Level of Students: A Case Study during Online Classes</td>
<td>Angelo Luis S. Doctora, William Davin D. Perez, Abigail B. Vasquez, and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines</td>
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### 12:00 – 1:45 pm, MONDAY  
**Industrial Management**  
*Room 4*

Session Chair:  

<table>
<thead>
<tr>
<th>ID</th>
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</table>
| 616  | A Preliminary Analysis on Road Accidents among Food Delivery Motorcyclists: Determining the Factors Influencing the Accidents | Siti Nurul Suhada Rosle, Malaysia Institute of Transport, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia  
Siti Ayu Jali, Malaysia Institute of Transport, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia  
Faculty of Business and Management, Universiti Teknologi MARA Puncak Alam Campus, 42300 Puncak Alam, Selangor, Malaysia. |
| 422  | Comparison of Porter’s Generic Strategies in Indonesia’s FMCG Companies: A Case Study of PT Indofood Tbk and PT Mayora Indah Tbk | Hanoun Salsabela, Mutia Perwita Sari, Wendy Febrianty Mardhiyah, Raisha Dinita, Industrial Engineering Department, Faculty of Engineering Universitas Indonesia, Kampus UI Depok, 16424 |
ID 455  Eliminate Time Process in Order to Cost Leadership Strategy Implementation. Case Study: Zamzam Medical Clinic
Sila Nuriali, Department of Industrial Engineering, Universitas Indonesia, Indonesia, Lutfiani, Department of Industrial Engineering, Universitas Indonesia, Indonesia
Alif Faridalthaf, Department of Industrial Engineering, Universitas Indonesia, Indonesia

ID 409  Implementation of Porter’s Generic Strategies in Indonesian Airlines Industry During Covid-19 Pandemic (Case Study: Garuda Indonesia and AirAsia)
Annisa Khairani, Asrie Permata D. and Lailutul Fadhila R., Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Depok, 16424, Indonesia

ID 648  Bread Returns Management in Commercial Plant Bakeries: Case Study
Innocent Muzivi, School of Physics, Engineering, and Computer Science, University of Hertfordshire, Hatfield, Hertfordshire, AL10 9AB, UK, Funiade T. Sunmola, School of Physics, Engineering, and Computer Science, University of Hertfordshire, Hatfield, Hertfordshire, AL10 9AB, UK

ID 811  The Influence of Bidikmisi Scholarships and Learning Environment on Learning Achievement through Student Motivation at Private College
Nurjan, Akmal Umar, Nasruddin Nawawi, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Misnawati, Sekolah Tinggi Ilmu Hukum Padjadjaran, Indonesia

ID 757  Cooperative and MSME Empowerment Strategies in Economic Recovery During The Covid-19 Pandemic In Bogor District
Dinalara D Butarbutar and Mustika Mega Wijaya, Department of Law, Faculty of Law Pakuan University, Bogor Indonesia

12:00 – 1:45 pm, MONDAY  Logistics  Room 5
Session Chair: Chung-Cheng Lu, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

ID 325  A Review of Recent Research on Green Vehicle Routing Problem
Nida Durmaz, Department of Industrial Engineering, Gebze Technical University, Kocaeli, Turkey
Ayşenur Budak, Department of Industrial Engineering, Gebze Technical University, Kocaeli, Turkey

ID 614  Acceptance of the Integrated Technology System by the Courier Services
1Emy Ezura Bt. A. Jali, 2Tee Ming Kuan & 3Chin Jian Wen, 1Technology and Supply Chain Excellence Institute, School of Technology Management, Universiti Utara Malaysia

ID 423  Lean and Green Modelling in Healthcare Supply Chains: The Case of Massive COVID-19 Vaccine Distribution
Susana Duarte, Maria do Rosário Cabrita, V. Cruz-Machado, UNIDEMI, Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal

ID 560  Literature Review on Supply Chain Risks
Mounia Hafiani, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Mariam Maslouhi, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Laila El Abbadi, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco

ID 383  Multi Objective Resources Scheduling Model in Humanitarian Logistics Considering Secondary Disaster
Mohammad Rakibul Hasan Chowdhury, Md Abdullah Mia and Nur Md. Alif U Islam, Department of Industrial and Production Engineering Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

ID 101  Optimal Scheduling Problem for Express Delivery Services Using E-scooters
Chung-Cheng Lu and Jui-Jing Sun, Department of Transportation and Logistics Management, National Yang Ming Chiao Tung University Hsinchu, 300, Taiwan

ID 213  Optimization of Toll Plaza in Different Lane Configuration
1Shakir Ahmad, 1 Muhammad Usman, 2Shahid Ali, 3Saman Shahid, 1 Department of Civil Engineering, University of Management & Technology (UMT), Lahore, Pakistan
2Department of Civil Engineering, National University of Computer & Emerging Sciences,(NUCES), FAST Lahore, Pakistan
3Department of Sciences & Humanities, National University of Computer & Emerging Sciences, (NUCES), FAST Lahore, Pakistan

ID 722  A Stochastic Optimization Algorithm for Joint Inventory and Fulfillment in an Omnichannel Supply Network
Abdelrahman Aboelrous and Adriana F. Gabor, Department of Applied Mathematics and, Research Center on Digital Supply Chain and Operations Management, Khalifa University, Abu Dhabi, United Arab Emirates

August 2, 2021 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY  Undergraduate Research Competition  Room 1
Session Chair: Dr. Mizanur Rahman, UTM

ID 449  Alginate Concentration Optimization for the Production of Edible Spheres
Juan Estrada, Diego Múzquiz, Fernando Vega, Jorge Hernández & Marcelo Tamez, Department of Industrial, Innovation & Development Engineering, Monterrey Institute of Technology and Higher Education, Monterrey, Mexico
ID 558  Effect of copper percentage on microstructure and mechanical behaviour of the ternary alloy Ti-Ni-Cu shape memory alloy
Zineb Sadaoui ENSMM Annaba Annaba Algeria Algeria

ID 611  Improving the Purchasing Order Process Of Model Auto And Equipment Supplies Inc. Using An Enterprise Resource Planning (ERP) Software
Jan Erica D.C. Aquino, Karlo Gabrield B. Batto, Bonifacio A. De Jesus Iv, Aiden Lemuel T. Lumibao, Lex Marco Paolo A. Miranda, Milka Rosella C. Villarica and Grace Lorraine D. Intal, School of Information Technology, Mapua University

ID 456  Lower Back Pain Issues among Online Class High School Teachers
Shaira Marella G. Del Rosario, Gabby O. Gadiana, Pauline G. Gonzales, Jeremy James T. Jardin, Michael Jim C. Malasa, Blanche Angelo DC. Taglucop, John Fergus Kier R. Torres, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines - Quezon City, Cubao, Quezon City, Philippines

ID 495  Minimizing the Effect of Covid-19 Pandemic as One of the Supply Chain Disruption in a Timber Trade Sector
Christyanne Austin Bernardo, Celenina Grace Cruz, Kate Antonette Dy, Hector Jamero, and Norvind Minordo, Industrial Engineering Department Technological Institute of the Philippines, 938 Aurora Blvd., Cubao, Quezon City, Philippines

ID 382  Using Aspen Plus to Simulate Pharmaceutical Processes – An Aspirin Case Study
Alisa Douglas, Integrated Biomedical Engineering, McMaster University, Hamilton, ON L8S 4L8, Canada
Ali Elkamel, Department of Chemical Engineering, University of Waterloo, Waterloo, ON, N2L 3G1, Canada

ID 355  Wine Production with Frozen Grapes - A Feasibility Analysis
Renato Perrogón Hurtado, Gabriela Camargo Jordán, Diana Laura Monroy Benavides, Josealán Valdivia Neri, Patricio Ugartechea Rodríguez, and Marcelo Bueno Ruiz-Velazco, Industrial and Systems Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey, Nuevo León, México

ID 723  Sustainable Echo Absorption Material with Recycled Plastic
Komalpreet Kaur Takhar, Undergraduate student, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE, Dr. Saleema Panda, Assistant Professor, Department of Civil Engineering, British Applied College, Umm Al Quwain, UAE

ID 766  Stringency Index and Stock Market Return Amidst COVID-19 Pandemic: Evidence from Emerging Stock Market Countries
Muhammad Ilham Gunawan and Yunietta Anny Nainggolan, A. School of Business and Management, Department of Business and Management, Bandung Institute of Technology, Bandung, 40132, Indonesia

2:00 – 3:45 pm, MONDAY
Human Factors and Ergonomics Competition Room 2

Session Chair: Dr. Mario Fargnoli, Sapienza - University of Rome

ID 311  Development of an Ergonomically Designed Infant Walker
John Paolo A. Isip, and John Mark A Nanip, Industrial Engineering Program – College of Information Technology and Engineering, La Consolacion University Philippines, Valenzuela St., Capitol View Park Subdivision, Malolos, 3000 Bulacan

ID 506  Effects of Computer-Based Work on the Musculoskeletal Discomfort among College Students
Maria Angelica D. Bare, Francess Mae F. Castro, Jhon Lawrence G. Quimio and Ma. Janice J. Gumasing, School of Industrial and Engineering Management, Mapú University, Intramuros, Manila

ID 511  Mismatch Analysis Between Classroom Chair and Anthropometric Measurements of Mapua University Students
Lorenzo T. Caday, Krisanta Ana E. Draculan, Kianna Denise C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila

ID 509  Relationship of Work Posture During WFH Setup on Musculoskeletal Discomfort of Students
Jerome Liwanag, Wajid Mariño, Anthony Sanchez and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 306  Retrofitting agricultural tractors with aftermarket weather cabins: safety issues for manufacturers and users
Gattamelata Davide, Puri Daniele, and Vita Leonardo, Department of technological innovations and safety of plants, products and anthropic settlements, National Institute for Insurance against Accidents at Work (Inail), Via di Fontana Candida, 1, 00078 Monte Porzio Catone, Italy Mario Fargnoli, and Mara Lombardi, Department of Chemical Engineering Materials Environment (DICMA), Sapienza - University of Rome, via Eudossiana 18, 00184 - Rome, Italy

ID 335  Development and Initial Testing of Lumbar Support for Traffic Police Motorcycle Seat With Built-In Massager System: A Preliminary Study In The View of Ergonomics
Nur Athirah Dyiyan Mohammad Yusof, Kamegam Karuppih, Putri Anis Syahira Mohamad Jamil, Imiza Rasdi, Vivien How, Sivasankar Sambasivam, Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia
Kulanthayan KC Mani, Department of Community Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

ID 537  Perceived Effect of Factors on Workers' Task Performance in a Cold Storage Warehouse Facility
Cynthia B. Leonardo and Marvin I. Norofia, School of Industrial Engineering and Service Engineering Management, Mapú University, Intramuros, 1002 Metro Manila, Philippines

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2:00 – 3:45 pm, MONDAY     Industry 4.0     Room 3
Session Chair: Christoph Szedlak, Konrad-Zuse-Str. 1, Koblenz, Germany

ID 295  Smart sustainable manufacturing: From Literature review to a green framework  Industry 4.0  Imane Benkhati  Search Results
Web result with site links  Faculté des Sciences Semlalia Marrakech Casablanca Grand Casablanca Morocco

ID 502  Social Capital and Industry 4.0 Readiness in Developing Countries. Role of Potential and Realized Absorptive Capacity
Najam Ul Zia, Felicita Chromjakova, and Ledislav Burila, Faculty of Management and Economics, Department of Industrial Engineering and Information Systems, Tomas Bata University in Zlin, Zlin, Czech Republic

ID 165  Sustainable Introduction of Industry 4.0: A Systematic Literature Review
Erwin Rauch, Industrial Engineering and Automation (IEA), Faculty of Science and Technology, Free University of Bolzano-Bozen, Bolzano, Italy
David S. Cochran, Center of Excellence in Systems Engineering, Purdue University Fort Wayne, Fort Wayne, IN, 46805, USA

ID 200  Technology Reform in Education Sector: A Blockchain Perspective
Priyanka C. Bhatt, Vimal Kumar and Pratima Verma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiyuan, ROC
Ateequr Rahman, Office of Dean of Academic Affairs, Indian Institute of Technology, Kanpur, India

ID 439  Value Chain of the Spheroidisation of Metal with particular emphasis on Titanium: A literature Review
Tsepo. M. Dube; Andre F van der Merwe and Stephen Matope, Department of Industrial Engineering, University of Stellenbosch, South Africa
Hertzog Bissett, Research and Development, South African Nuclear Energy Corporation, South Africa

2:00 – 3:45 pm, MONDAY     Knowledge Management     Room 4
Session Chair: Sharmine Akther Liza, Ahsanullah University of Science & Technology, Dhaka, Bangladesh

ID 005  Assimilation Gap in Institutes of Higher Learning
RRK Sharma and Vinayak Drave, Dept of IME IIT Kanpur 208016 India

ID 443  Codification or Personalization? Aid To Choose Your Knowledge Management Strategy
Afaf Jhamou and Aziz Maziri and El Hassan Malli and Jamal Echaibi, Mechanical Engineering Department, National Higher School of Electricity and Mechanics, Hassan II University of Casablanca, Casablanca, Morocco

ID 552  Global Brand influences Brand Awareness, Intention, and impacts on Hotel Service Purchases
Enggal Sriwardiningsih, Management Department, Business School-Undergraduate, Bina Nusantara University, Jakarta, Indonesia
Anil Zulkarnain, Hotel Management Department Faculty of Economics and Communication,

ID 313  The Effect of Remote Working on Employees Productivity Levels in South Africa
Sajal Sucheran and Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 210  The rapid urbanization in Dhaka: A picture of shackling of sustainable development
Khan Mohammad Elyas, Planning Officer and Researcher, GIZ Bangladesh, Dhaka, Bangladesh

ID 742  A Study of the Watershed Management (Maintained and Restored) in Krueng Peusangan, Aceh Province, Indonesia
Jumadil Saputra Universiti Malaysia Terengganu Malaysia

ID 807  The Effect of Compensation and Discipline on Performance Through Employee Work Motivation at the DPRD Secretariat in Soppeng Regency
Heriani, Baharuddin Baharuddin, and dan Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Muliaty, Politeknik Negeri Media Kreatif, Makassar, Indonesia

ID 628  Identifying Demand Pattern in Supply Chain amidst COVID 19-Crisis Using Machine Learning Technique
Naimur Rahman Chowdhury, Department of Mechanical & Production Engineering, Ahsanullah University of Science & Technology, Dhaka, Bangladesh
Aniruddha Roy, Department of Materials and Metallurgical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Sharmine Akther Liza, Department of Mechanical & Production Engineering, Ahsanullah University of Science & Technology, Dhaka, Bangladesh
ID 637  An Application of Analytical Hierarchy Process in the Comparison of the Use of GCash, Paymaya, and Debit Card Applications as a Payment Option in the Philippines
Julianne Mikhaella Delos Reyes, Louis Miguel Dural, Julia Sofie Mangaang, and Gaea Marithe Victor, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila 1002, Philippines

ID 638  An Application of Analytical Hierarchy Process in the Comparison of Zoom, Google meet, and MS teams
James Brylle C. Foz, Martin James Olan, Daniel Nombrado Perez, Ervin Josh Santos, Rianina D. Borres, Department of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 605  A Confirmatory Analysis on the Enterprise Risk Management Factors on the Malaysian Mtun Universities’ Performance
Saleh Nasser Abdullah Al-Subari, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia.
Rumaizah Ruslan, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia
Shafie Bin Mohamed Zabri, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia.

ID 762  The Impact of Narcotics Use and Selling in Criminological Studies: Learn from Indonesia
Esti Royani, Faculty of Law, University of 17 Agustus 1945, Samarinda, Indonesia

ID 789  Enhancing Boot’s UK Online Store During Pandemic Through Integrated Business Strategies
Ananda Nurhafsah, Faculty of Business, Law and Politics, University of Hull, Hull, HU6 7RX, UK

ID 808  The Effect of Incentives and Work Ability on Job Satisfaction through Performance
Kasril, Ansar, and Muhammad Nur Fattah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Lina Marлина, Politeknik Triguna, Takakmala, Indonesia

ID 809  Analysis of Family Knowledge on Stunting Events Through PHBS and Family Nutrition Management in the Work Area of Babana Mamuju Public Health Center
Resckiani, Hasmin Tamsah, Raja Juddi Abdullah, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Feby Triadi, Sekolah Tinggi Ilmu Administrasi Puangrimagatalung, Makassar, Indonesia

ID 337  A Conceptual Framework of Power Outage, Global Economic Recession and Green Human Resources Management: A Palestinian Health Sector Perspective
Issam Ayyash, Department of Computerized Financing and Banking, College of Business and Economics, Palestine Technical University-Kadoorie, Tulkarm, Palestine

CATME Workshop - Managing Student Teams – Room 6
SPEAKER: Dr. Matthew W. Ohland, Dale and Suzi Gallagher Professor School of Engineering Education, Purdue University, West Lafayette, Indiana, USA

August 2, 2021 (Monday) - Session: 4:00 – 5:45 pm

Session Chair: Dr. Mizanur Rahman, UTM

ID 444  Investigating the Effectiveness of E-Governance in the Barangays of Cainta, Rizal during the Covid-19 Pandemic
Lourdes Beata Cabanacan, Michael Jay Cabario, Rodel Come, John Lemuel Nero, John Henry Reyes and Engr. Romalyn Galingan, Department of Architecture and Engineering, Industrial Engineering Department Technological Institute of the Philippines, 938 Aurora Blvd., Cubao, Quezon City, Philippines

ID 334  How Industrial Internet of Things Enables Engineers to Work Remotely
Christopher Striff, John Takiff, Brandon Drury, Jimmy Algeo, Moummar Nawafleh and Mohamed Awwad, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 453  Undergraduates and Employers’ Perception on Employability: An Inferential Analysis
Ma. Annamil Acebedo, Sarah Eleonor G. Alcaraz, Industrial Engineering Department, Technological Institute of the Philippines – Manila Marion Claire Huico, Aaron Carl Magsayo, Angela Boaz O. Patron, Industrial Engineering Department, Technological Institute of the Philippines – Manila

ID 432  Linear Programming: Optimizing Paper Consumption in the Municipal Office of Pandi, Bulacan
Cabahel, Allyn C., Juaro, Arjay Rey R., Santos, Eugene Mark, Bachelor of Science in Industrial Engineering, La Consolacion University Philippines, Malolos City, Bulacan, Philippines

ID 362  Determination of the Concentrations of the Gelling Material and Calcium Solution for Inverse Spherification.
<table>
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<tr>
<th>ID</th>
<th>Title</th>
<th>Authors and Affiliations</th>
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</thead>
<tbody>
<tr>
<td>718</td>
<td>Customer Segmentation Based on Fuzzy C-Means and Weighted Interval-Valued Dual Hesitant Fuzzy Sets</td>
<td>Nguyen Huy Thiem Phuc, School of Industrial Engineering and Management, International University, HCMC, Vietnam, Ha Thi Xuan Chi, School of Industrial Engineering and Management, International University, HCMC, Vietnam</td>
</tr>
</tbody>
</table>

4:00 – 7:00 pm, MONDAY

**High School STEM Competition**

**Room 2**

Session Chair: Prof. Don Reimer, LTU

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<th>ID</th>
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</thead>
<tbody>
<tr>
<td>497</td>
<td>Ergonomic Design of a Computer Workstation for Preschool Students Studying at Home</td>
<td>Karylle E. Famero, Jared Z. Paguia and Maui T. Yumul, Young Innovators Research Center, Mapúa University – Makati, Makati, Metro Manila, Philippines Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapú University, Manila, Philippines</td>
</tr>
<tr>
<td>498</td>
<td>Ergonomic Design of Computer Workstations of High School Students Studying at Home</td>
<td>Ryan Gabriel D. Cadiz and Castro James J. Guerrero, Young Innovators Research Center, Mapú University, Intramuros, Manila 1002, Philippines. Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapú University, Manila, Philippines</td>
</tr>
<tr>
<td>345</td>
<td>Ergonomic Design of Computer Workstation for College Students Studying at Home</td>
<td>Randolf Cabugawan, Homer Laguador, and Kelly Albert Lim, Young Innovators Research Center, Mapú University, 658 Muralla St. Intramuros, Manila, 1002, Philippines. Ma. Janice J. Gumasing, School of Industrial and Engineering Management, Mapú University, 658 Muralla St. Intramuros, Manila, Philippines</td>
</tr>
<tr>
<td>670</td>
<td>Ergonomic Design of Computer Workstation for Elementary Students Studying at Home</td>
<td>Michael Dave Bunnao, Christian Gabrielle Horeerat, Jhon Lawrence Nueva, and Josh Reyes, Young Innovators Research Center, Mapú University, 658 Muralla St. Intramuros, Manila, 1002, Philippines. Ma. Janice J. Gumasing, School of Industrial and Engineering Management, Mapú University, 658 Muralla St. Intramuros, Manila, Philippines</td>
</tr>
<tr>
<td>312</td>
<td>Eternal Tumor Virus (ETV) A new development in the treatment of benign and malignant tumors (cancer)</td>
<td>Habiba El sayed, Kafr el sheikh N/A Egypt</td>
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<td>349</td>
<td>BalletNetTrainer: An Automatic Correctional Feedback Instructor for Ballet via Feature Angle Extraction and Machine Learning Techniques</td>
<td>Jiayao (Emily) Li, ARQuest SSERN International, Irvine, CA, USA Haridhar Pulivarthi, ARQuest SSERN International, Kirkland, WA, USA</td>
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<tr>
<td>364</td>
<td>Maximal Queen Placements for the Mod 2 n-Queens Game</td>
<td>Cindy Qiao, (Mentor: Zackary Wolke, Department of Mathematics, University of Toronto), A.Y. Jackson Secondary School, ON, Canada</td>
</tr>
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<td>326</td>
<td>Sequential Pattern Mining of Electronic Health Record for Early Diagnosis of Amyotrophic Lateral Sclerosis</td>
<td>Cindy Liang, Texas Academy of Mathematics and Science, Denton, TX 76201, USA Lily Sun, Stanford Online High School, Redwood City, CA 94063, USA William Jin, Community Middle School Plainsboro, NJ 08536, USA</td>
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<tr>
<td>717</td>
<td>Interest in STEM in Bay Area High School Students</td>
<td>Nicole Serrano, Stanford Online High School, Redwood City, CA 94063</td>
</tr>
<tr>
<td>726</td>
<td>Senecio Elegans Population Size and Dispersion</td>
<td>Tanisha Gupta, Stanford University Online High School, Redwood City, CA 94063, USA</td>
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<td>738</td>
<td>Reducing the Time it Takes for Restaurants to Deliver Food Using Six Sigma in Dammam</td>
<td>Abdulrazak Albahrani, AISR AliAlsahleh, Ibn Aby Hatim School Mohammad Abdullah Mohmed Al Shams, Abdullah Bin Salam School Hassan Albahrani, Altahtheeb High School Saudi Arabia</td>
</tr>
<tr>
<td>365</td>
<td>Europe Travel Efficiency</td>
<td>Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA</td>
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<tr>
<td>790</td>
<td>Logic, Gambling, and Games</td>
<td>Samuel Feldman, Stanford Online High School, Redwood City, CA 94063, USA</td>
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<tr>
<td>027</td>
<td>An Investigation of the Benefits of Implementation, Certification, and Accreditation to Quality Management Systems: A Case Study of the Council of Geoscience, Pretoria, South Africa</td>
<td>Matsekana Ronald Ragoshia, Management College of Southern Africa, Research Department, 1 Cedar Avenue, Johannesburg, South Africa</td>
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<td>166</td>
<td>World-Class Manufacturing and Industry 4.0 as Strategic Differential - Case Studies</td>
<td>José Daniel Rodrigues Terra and Fernando Tobai Berssaneti, Production Engineering Department, University of Sao Paulo, Cidade Universitária, Sao Paulo, Brazil; José Alberto Quintanilha, Transport Engineering Department, University of Sao Paulo, Cidade Universitária, Sao Paulo, Brazil</td>
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<td>426</td>
<td>Measuring the Impact of Fourth Industrial Revolution on the Modern Operations Management Systems in the Modern South African Banking Industry</td>
<td>Mohale Mofokeng and Thabiso Mokoena, Department of Quality and Operations Management, Faculty of Engineering &amp; The Built Environment, University of Johannesburg, Doornfontein, Johannesburg, South Africa</td>
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<td>116</td>
<td>Proposal of logistics and strategic planning of aircraft operations for the fight of forest fire</td>
<td>Cecilia Montt, Walter Abarza, Astrid Oddershede and Luís Quezada, Department of Industrial Engineering, University of Santiago of Chile, Santiago, Chile</td>
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<td>791</td>
<td>multi-criteria evaluation of cloud service providers with the integrated fuzzy group decision-making approaches</td>
<td>Derya Deliktaş, Pınar Simay Ergün and Mustafa Akpınar, Department of Industrial Engineering, Kütahya Dumlupınar University, Kütahya, 43100, Turkey</td>
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<td>810</td>
<td>The Role of Bureaucracy and Implementation of Educational Policies on Organizational Performance Through Service Quality</td>
<td>Deona Glory Tandiawa, Akmal Umair, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia; Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia</td>
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<td>459</td>
<td>Do Pandemic Related Datasets with High Artificial Control Still Follow the Benford’s Law?</td>
<td>C. Kalpani Dissanayake, Assistant Professor, Department of Business and Economics, Pennsylvania State University, 25 Yearsley Mill Rd., Media, PA 19063 USA; Jay Daniel, Program Leader, MSc Global Operations and Supply Chain Management, Derby Business School, University of Derby, Kedleston Rd, Derby DE22 1GB, UK</td>
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<td>308</td>
<td>Integrating Lean Manufacturing and Simulation Modelling to improve the productivity of a door and window manufacturing plant</td>
<td>Thalia Nair and Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa</td>
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<td>129</td>
<td>Lean Manufacturing Implementation in Pharmaceutical Industries</td>
<td>Muhammad Ali Khan, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan</td>
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<td>240</td>
<td>Scope of Lean Manufacturing Philosophy in the Industries of Pakistan</td>
<td>Muhammad Ali Khan, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan</td>
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<td>124</td>
<td>Simulation-based analysis of strategies for the implementation of Lean Supply Chains</td>
<td>Satie Ledoux Takeda-Berger, Guilherme Luz Tortorella, Icaro Romolo Sousa Agostino and Enzo Morosini Frazzon, Industrial and Systems Engineering Department, Federal University of State of Santa Catarina, Florianópolis, Brazil; Tamie Takeda Yokoyama, Production Engineering Department, University Center UniSociesc, Joinville, Brazil</td>
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<td>238</td>
<td>The impact of digitalization on the Define phase of the Six Sigma methodology</td>
<td>Jasmin Ohlig, Patrick Poetters and Bert Leyendecker, University of Applied Sciences Koblenz, Faculty of Operations Management, Konrad-Zuse-Str. 1, 56075 Koblenz, Germany</td>
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<td>128</td>
<td>The Potential of Lean Manufacturing Philosophy in Automobile Industries</td>
<td>Muhammad Ali Khan, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan</td>
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<td>812</td>
<td>The Influence of Human Resources Competence and Compensation on Job Satisfaction Through Excellent Service at Lagaligo Hospital I in East Luwu Regency</td>
<td>Jamal, Rasyidin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia; Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia</td>
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<td>142</td>
<td>Urea Sacks Inventory Analysis Using Six Sigma Approach in PT. X</td>
<td>Akhmad Nidhomuz Zaman, Lecturer of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jakarta, Indonesia; Aden Mas Melia and Rahmayanti Wulandari, Student of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia</td>
</tr>
</tbody>
</table>
4:00 – 5:45 pm, MONDAY  
PANEL – Quality 4.0  
Room 5

Session Chair:
Dr. M. Afhan Badar, PhD, CPEM  
Professor and Former Chair  
Department of Applied Engineering and Technology Management  
Indiana State University  
Terre Haute, Indiana, USA

Panel Speaker I
Bob Doering, MBA  
Quality Engineer  
Superior Roll Forming  
Quality Engineering Professional  
Expert in CorrectSPC for Precision Machining – Trainer, Consultant  
Lagrange, Ohio, United States

Panel Speaker II
Dr. Vivek Soni  
Assistant Professor  
Coordinator - Internal Quality Assurance Cell  
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions  
Bharatiya Vidya Bhavan’s – Usha and Lakshmi Mittal Institute of Management  
New Delhi, India

Panel Speaker III
José Carlos Sá  
Adjunct Professor  
Course Subdirector  
Mechanical Engineering Department – Sub-Area of Industrial Engineering and Management  
Superior Institute of Engineering of Porto  
Porto, Portugal

Panel Speaker IV
Adil Dalal  
Vice President of Operations  
Enviromedica  
Austin, Texas, USA

Panel Speaker V
Dr. Elizabeth Cudney  
Associate Professor of Business Data Analytics  
John E. Simon School of Business  
Maryville University  
St Louis, Missouri, United States

August 2, 2021 (Monday) - Session: 6:00 – 7:45 pm

6:00 – 7:45 pm, MONDAY  
Undergraduate Student Paper Competition  
Room 1

Session Chair: Dr. Mizanur Rahman, UTM

ID 309  
Inefficiencies of the COVID-19 Vaccine Distribution in California  
Jared McMullen, Matt Akins, Matt Grywcynski, Jack Rocca, Carter Bergquist and Mohamed Awwad, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 415  
Production method of frozen cider  
Ana Soﬁa López Padilla, Daniela Pascual Quiroga, Fernando Ignacio Valdez Garza, Gerda Carolina Lankenau Lehmann, Luisa Mariana Ponce Payan, and Raymundo Daniel Lozano Barocio, Bachelor student of Industrial Engineering with a minor in Systems Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, Nuevo León, México
ID 354  Pusa Decomposer Parvati Shelke Osmanabad Maharashtra India

ID 002  Reducing Inventory for a Mexican Convenience Store Network by Reducing the Order Cycle Time Mireya Elizondo, Mariana Villarreal, Vanessa Ocañas and Bernardo Villarreal, Department of Industrial Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. Mexico

ID 356  Smart Parking System Aman Misri Mumbai maharashtra India

ID 721  The Study of Customer’s Behavioral Response and Repurchase Intention after Dissatisfaction towards K-Pop Products and Organization in Indonesia Tasya Rahmi Annisa, School of Business and Management, International Business, Bandung Institute of Technology, Jl. Ganesa No. 10, Indonesia

802  Marketing Communication Strategy on Indonesian Film: A Study Case of Laskar Pelangi Loretta Kainary Hutapea, Amilia Wulansari, School of Business and Management, Bandung Institute of Technology, Bandung, Indonesia

7:00 – 9:00 pm, MONDAY  Simulation Competition Room 2
Session Chair: Prof. Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum – Università di Bologna, Italy

ID 673  An Integrated Simulation Model for Water Purification and Distribution Francesco Simone, Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Via Eudossiana, 18 – 00184 Rome (Italy)

ID 553  CAD-Aided Preoperative Simulation in Pediatric Orthopedics: The Case Study of Ollier's Disease Leonardo Frizziero, Alfredo Liverani, Gian Maria Santi, Paola Papaleo, Francesca Napolitano and Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy
Giovanni Trisolino, Giovanni Luigi Di Gennaro, and Paola Zarantonello, IRCCS – IOR—Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, Bologna 40136 Italy

Giovanni Trisolino, Paola Zarantonello, Stefano Stallone and Giovanni Luigi Di Gennaro, IRCCS–IOR – Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, 40136 Bologna, Italy

6:00 – 7:45 pm, MONDAY  Engineering Education Room 3
Session Chair: Abdelaziz Berrado, Ecole Mohammadia d’Ingénieurs, Mohammed V University of Rabat, Morocco

ID 319  An Assessment of the Impact of Covid 19 on Zimbabwean Universities Students M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
T. N. Mutusva, Department of Mathematical Sciences, School of Industrial Sciences, Harare Institute of Technology, Zimbabwe
N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 320  An Educational Computer Aided Heat Exchanger Design Software Mohamed Edali, Asma Milad, Wald Alaswad, Zaed Sahem, and Faraj BenRajeb, Department of Chemical and Petroleum Engineering, Elmergib University, Elkhoms, Libya. Creativity Group for Technical Services, Ottawa, Ontario, Canada
Ali Elkamel, Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, Canada

ID 278  Analysis of the Embankment Stability with Flat Concrete Sheet Pile (FCSP) Edy Gardito, Fauzie Nursandah and Bambang Subiyanto, Department of Civil Engineering, Kadiri University, Selomangleng, East Java, Indonesia
Arthur Daniel Limantara, Department of Informatics Engineering, STT Caha Surya, Perintis Kemerdekaan 36A, Kediri, East java, Indonesia
Djunaedi and Nurlaelly, Department of Economic, Kadiri University, Selomangleng 1, Kediri, East Java, Indonesia
Hery Lilik Sudarmanto, Department of Law, Kadiri University, Selomangleng 1, Kediri, East Java, Indonesia

ID 551  TAM and Game-based Learning Platform for Online Education in Schools Enggpal Siwardningsih, Management Department, Business School-Undergraduate, Bina Nusantara University, Jakarta, Indonesia

ID 81  The Professional Profile of Aerospace Engineers for Industry 4.0 Alma Arcelia Gonzalez Lozano and Rosa Amalia Gómez Ortiz, Escuela Superior de Comercio y Administración Unidad Santo Tomás, Instituto Politécnico Nacional, Ciudad de México, Mexico
ID 827 Analysis of Facilities and Infrastructure Management Its Impact on Student Learning Outcomes Through Quality of Learning in the Madrasah Working Group (KKM) State Aliyah Madrasah 1 Bulukumba

ID 740  Applying Machine Learning Meta-Algorithms to Predict Career Development Preferences among College Students Carlos Hernández, Instituto de Ingeniería Industrial y Sistemas, Universidad Austral de Chile, Valdivia, Chile
6:00 – 7:45 pm, MONDAY Systems Dynamics Room 4
Session Chair: Mahdi Bastan, Department of Industrial Engineering, University of Eypavekey, Semnan, Iran

ID 141 Bitcoin World Price Forecasting: Time Series Analysis and Machine Learning Approach
Hadi Mohammadi, School of Industrial Engineering, College of Engineering, University of Tehran, North Kargar St., Tehran, Iran
Mehran Moazeni and Majid Khedmati, Department of Industrial Engineering, Sharif University of Technology, Azadi St., Tehran, Iran

ID 132 Evaluating Resilience factors Using Data Envelopment Analysis: A Case Study in an Oil and Gas Company
Mahdi Hamid, University of Tehran, Tehran, Iran

ID 094 Increasing the quality of library services with system dynamics approach (Case Study: The Central Library and Documentation Center of Tehran University)
Ali Mohaghar, Sara Aryae, and Ashraf Khodaee, Management Department, University of Tehran, Tehran, Iran

ID 461 Managing Medical Waste during COVID-19 Outbreak: A Simulation Approach
Agus Mulyadi and Niniet Indah Arvitrida, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

Agung Fajar Ilmiyono1, Hari Gursida2, Ellyn Octavianty3 and Ani Mulyani4, Department of Accounting, Faculty of Economics and Business, Universitas Pakuan, Bogor, Indonesia

ID 756 An Investigation of the Dynamic of Cocoa Commodity Competitiveness in Indonesia and Ivory Coast Before and During Covid-19 Pandemic
Ahmad Fawaiq Suwunan, Faculty of Economics, Universitas Negeri Malang, Semarang, 65145 Malang, Indonesia, Mahirah Kamaludin and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 775 Chitosan-Alginat-Aloe Vera Biomembran for Wound Dressing Applications
Suryati, Meriatna, Sulhatun and Puspita Sari, Department of Chemical Engineering, Faculty of Engineering, Universitas Malikussaleh, Muara Batu, Aceh Utara, Aceh, Indonesia

ID 127 A predictive model to overbook patients in order to reduce no-show effects
Mahdi Hamid, University of Tehran, Tehran, Iran

6:00 – 7:45 pm, MONDAY PANEL-Supply Chain and Logistics Room 5
Panel Chair
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
University of Derby, UK
Editor-in-Chief, International Journal of Industrial Engineering and Operations Management (IJIEOM)

SCM Panel Speaker I
Professor Vikas Kumar, Ph.D.
Professor of Operations and Supply Chain Management
Director of Research and Scholarship
Bristol Business School
University of the West of England (UWE)
Bristol, UK

SCM Panel Speaker II
Dr. Jifi Tupa
Vice Dean for Faculty Development
Faculty of Electrical Engineering
University of West Bohemia
Pilsen, Czech Republic

SCM Panel Speaker III
Dr. Luis Rocha Lona
Lecturer in Operations Management, Business School
National Polytechnic Institute of Mexico
México City, Mexico
Tec de Monterrey, Campus Santa Fe

SCM Panel Speaker IV
Dr. Anil Kumar
Senior Lecturer (Associate Professor)
Guildhall School of Business and Law
London Metropolitan University
London, UK

SCM Panel Speaker V
Dr. Sunil Luthra
Director-Principal
Ch. Ranbir Singh State Institute of Engineering & Technology
Jhajjar, Haryana, India

August 3, 2021 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY    Global Engineering Education I    Room 1
Session Chair: Dr. Ali Nasir, University of Central Punjab, Lahore

8:00 – 8:20 am, Tuesday, August 3
Ali Nasir, PhD
Associate Professor and Head
Electrical Engineering Department
University of Central Punjab
Lahore, Pakistan
Understanding the Philosophy of Outcome based Education System

8:20 – 8:40 am, Tuesday, August 3
Professor Sezi Cevik
Department of Industrial Engineering
Istanbul Technical University
Turkey

8:40 – 9:00 am, Tuesday, August 3
Vijay Prakash Singh
Assistant Professor in Computer Science & Eng. Dept.
SVII, SVVV – Shri Vaishnav Vidyapeeth Vishwavidyalaya
Indore, India

9:00 – 9:20 am, Tuesday, August 3
Dr. Manfredi Bruccoleri
Program Director of BSc and MSc in Management Engineering
Università degli Studi di Palermo
Palermo, Sicily, Italy

9:20 – 9:40 am, Tuesday, August 3
Dr. Krzysztof Jemielniak
Professor emeritus, Faculty of Production Engineering
Warsaw University of Technology
Warsaw, Mazowieckie, Poland

9:40 – 10:00 am, Tuesday, August 3
Dr. Aftab Alam
Visiting Professor CMS Jamia Millia Islamia
Delhi, India

8:00 – 9:45 am, TUESDAY    Poster Competition    Room 2
Session Chair:

ID 653  A Model-Based Assessment of Cyber-Resilience Evaluation for Water Purification Plants with Societal Impact
Francesco Simone, Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Via Eudossiana, 18 – 00184 Rome (Italy)

ID 535  Demand Forecasting with Real Case Analysis for Effective Retail Decision-Making
ID 624  Demand Forecasting with Real Case Analysis for Effective Retail Decision-Making
Dua Weraikat, Safika Thasin, Caroline Zeidan, Mohammed Ishtiaq, Dr. Adolf Acquaye, Mechanical and Industrial Engineering Department, Rochester Institute of Technology, RIT Dubai, Silicon Oasis, Dubai, UAE

ID 615  Improving the Packaging Unit at AEC
Abdulaziz Alsalamah, Abdullah Alnooh, Nawaf Alsalman, and Abdulaziz Alhammadi, Department of Industrial Engineering, College Engineering, Alfaisal University, Riyadh 11533, KSA
Sobhi Mejjaoui, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

8:00 – 9:45 am, TUESDAY  Lean  Room 3
Session Chair: Mohamad ALNAJEM, Gulf University for Science & Technology, Kuwait

ID 052  An Application of Six Sigma DMAIC Phases to Minimize Defects in an Eco Brick Manufacturing Company
Ivy Mar J. Ramos, Industrial Engineering Department, College of Engineering, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 049  Elimination of Muda – Lean Wastes using Variable Frequency Drive: A Descriptive and Exploratory Study of Sugar Manufacturing Operations in Company Y
Marianne B. Calayag, Industrial Engineering Department, College of Engineering, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 102  How to Reduce Defect Using Six Sigma Method in a Small Family Run Factory
Bachtliar H. Simamora, M.Sc., Ph.D., Leader of Performance Excellence Research Group, Management Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Clairissa Pramesti, S.E., Management Program, Management Study Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

ID 464  Human Related Challenges in Lean Implementation: A Case of Sri Lankan Large Scale Contractors
N.M.G. Helamini Sandagomika, Y.G. Sandanayake, Department of Building Economics, University of Moratuwa, Sri Lanka

ID 053  Integrated application of lean manufacturing and theory of constraints in Automotive HVAC Manufacturing Assembly  Lean
Zahid Anwar 11, Muhammad Mudassar Sharif 22, Yousaf Ayub 33, Amir Abbas 44, Fazal Abbas 55
1Department of Industrial Engineering, Tsinghua University Haidian District, Beijing, 100084, P.R. China
2Department of Industrial Engineering, Tsinghua University Haidian District, Beijing, 100084, P.R. China
3Quality Management System.9000, Main Boulevard Lahore, 54000, Pakistan
4Institute of Quality and Technology Management, University of the Punjab Lahore, 54000, Pakistan
5Institute of Quality and Technology Management, University of the Punjab Lahore, 54000, Pakistan

ID 787  Intangible Asset a Key Driver for Company’s Performance: An Overview
Sani Inusa Milala, Khadijah Binti Md Ariffin, Rozilah Binti Kasim, Azlina Binti Md Yassin, and Mohd Hazibal Bin Ishak, Department of Real Estate and Facilities Management, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Malaysia, Narimah Binti Kasim, Department of Construction Management, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Malaysia

ID 028  Bridging theory and practice with Lean A3 undergraduate project in banking sector in Kuwait
Mohamad ALNAJEM Gulf University for Science & Technology Mubarak Al-Abdullah Area/West Mishref Kuwait Kuwait

8:00 – 9:45 am, TUESDAY  Risk Assessment and Occupational Health and Safety (OHS)  Room 4
Session Chair: Khandakar Akhter Hossain, MIST, Dhaka, Bangladesh

ID 211  Implications of embedded Artificial Intelligence (AI)-machine learning on safety of machinery
Sara Anastasi and Luigi Monica, Department of technological innovation and safety equipment, products and anthropic settlements, Italian Workers’, Compensation Authority, (INAIL), Rome, Italy

ID 203  Influence of Some Design and Operating Parameters on the Stability of Wheeled Narrow-Track Tractors
Domenico Pessina, Davide Facchinetti, Lavinia Eleonora Galli, Dept. of Scienze Agrarie e Ambientali, University of Milan, via Celoria 2, I 20133 Milan, Italy

ID 106  Risk Management Software – ZOTY
Martin Hirman, Andrea Benesova, Michal Svehla, Jiri Tupa, Frantisek Steiner, Tomas Rericha, Department of Technologies and Measurement, University of West Bohemia, Univerzitni 8, 306 14 Pilsen, Czech Republic
Zdenek Kocourek, Petr Humpholcek, IDS Advisory s.r.o., Otiskova 2823/30, Líšeň, 628 00 Brno, Czech Republic

ID 209  Risk Management Software Platform ZOTY for SMEs
Martin Hirman, Andrea Benesova, Michal Svehla, Jiri Tupa, Frantisek Steiner, Tomas Rericha, Department of Technologies and Measurement, University of West Bohemia, Univerzitni 8, 306 14 Pilsen, Czech Republic
Zdenek Kocourek, Petr Humpholcek, IDS Advisory s.r.o., Otiskova 2823/30, Líšeň, 628 00 Brno, Czech Republic

ID 530  Road to Viable and Sustainable Ship Recycling Regulation and Process Special Emphasis on Bangladesh
Engr Khandakar Akhter Hossain, Head, dept of NAME, MIST

ID 163  Safety Management of the Characterization Activities of Illegal Dumpsites
August 3, 2021 (Tuesday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, TUESDAY  Global Engineering Education II  Room 1
Session Chair: Dr. Patrick Dallasega, Free University of Bolzano (Italy)

10:00 – 10:20 am, Tuesday, August 3
Dr.-Ing. Patrick Dallasega
Assistant Professor
Title: Aligning Engineering Education to Industry 4.0 requirements

10:20 – 10:40 am, Tuesday, August 3

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

10:40 – 11:00 am, Tuesday, August 3

Dr. Denis Lemaître
Principal Investigator
Department of Formation et Apprentissages Professionnels
ENSTA Bretagne
Brest, France

11:00 – 11:20 am, Tuesday, August 3

Dr. Luis Manuel Sánchez Ruiz
Director Relaciones con Iberoamérica
Universitat Politècnica de València (UPV)
Valencia, Spain

11:20 – 11:40 am, Tuesday, August 3

Dr. Oleksandr Arkhypov
Professor and Head
Department of Theoretical Engineering and Industrial Enterprises
Volodymyr Dahl East Ukrainian National University
Severodonetsk, Ukraine

11:40 am – 12:00 pm, Tuesday, August 3

Dr. Luis Ramón Rojas-Solórzano
Director of Graduate Studies
School of Engineering and Digital Sciences
Nazarbayev University
Kazakhstan

10:00 – 11:45 am, TUESDAY  E-Business and E-Commerce

Session Chair: Gulsum Kubra Kaya, Industrial Engineering, Istanbul Medeniyet University, Istanbul, 34700, Turkey

ID 590 Integrated E-Government Model with Cloud Computing Technology
Inayatulloh and Maryani, Information System Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia

ID 472 Opportunity for Hotel Business during the COVID-19 Pandemic: A Case Study from Bengkulu City
Rajiv Dharma Mangruwa, Azman Hashim International Business School; Faculty Communication and Business, University Teknologi Malaysia
Telkom University Indonesia, Kuala Lumpur, Malaysia; Bandung, Indonesia
Akbariah M. Mahdzir, Malaysia Japan International Institute of Technology, University Teknologi Malaysia
Nur Naha Abu Mansor, Azman Hashim International Business School, University Teknologi Malaysia, Kuala Lumpur, Malaysia

ID 347 SMEs Soft Loan with Decision Support System Model
Inayatulloh and Novan Zulkarnain, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia

ID 588 Solution of E-Government Problems with Technology Acceptance Model Approach
Inayatulloh, Information System Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia

ID 436 Techniques, benefits, and challenges of recommendation system in e-commerce: A literature review
Thanh Vu Ngoc and Huong Tran Thi, School of Economics and Management, Hanoi University of Science and Technology, Hanoi, Vietnam

ID 410 The applicability of Porter’s generic strategies in E-commerce Companies: Study Case in Indonesia
Davis Belmiro, Gandi Bintang, and Sandi Bakti, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia
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<td>446</td>
<td>Porter's Generic Strategies on Food and Beverage Industry in Indonesia during COVID-19 Pandemic: Cases study approach</td>
<td>Ayu Mandasari Nasution, Fery Pernadi H, and Yaumil Khairoh, Department of Industrial Engineering, Universitas Indonesia, Kampus UI Depok</td>
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<td>430</td>
<td>Social Media Impact through Collaborative Relationships in Covid-19 Crisis: A Case Study of McDonald's BTS Meal</td>
<td>Zharalini Suryaputri, Indesta Aulia Hendra P, Adhyka Wijaya, I Ketut Sathyta Ananda S., Industrial Engineering Department, Indonesia University, Depok, Indonesia</td>
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<td>424</td>
<td>Strategic Adaptation to Respond to the Covid-19 Pandemic: A Case Study of Automotive Spare Parts Company in Indonesia</td>
<td>Ajun Tri Setyoko, Ayu Erliza, Michael Alfonsus L. Suryo S., Daniel Sheidy Sucipto, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok 16424, Indonesia</td>
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<td>421</td>
<td>Strategic Analysis of a General Insurance Company in Indonesia</td>
<td>Azam Ibrahim Ghurfar, Desi Triyana, and Fajar Prana, Departemen Teknik Industri, Fakultas Teknik, Universitas Indonesia, Depok, Indonesia</td>
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<td>340</td>
<td>The Sustainable Total Productive Maintenance: An Evolved System Approach, from the Methodology to the Ideology of the Today's Company</td>
<td>Anouar Hallioui and Brahim Herrou, Industrial Techniques Laboratory, Center for Doctoral Studies in Engineering Sciences and Techniques - Faculty of Sciences and Techniques of Fez, SIDI MOHAMED BEN ABDELLAH University, Fez, Morocco</td>
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<td>413</td>
<td>Understanding Strategic Initiatives Contributing to the Implementation of Cost Leadership and Differentiation Strategy to Achieve Competitiveness: A Case Study of Indonesia’s Cement Industry</td>
<td>Fahmi Ramadhian Putra, Rizki Abdillah, Kartika Trisna Putri, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia</td>
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<td>699</td>
<td>Analysis of critical Success factors of Gemba Kaizen in Lean Manufacturing within SA Industries</td>
<td>John Zvldzayi, Mangosothu University of Technology, Department of Mechanical Engineering, P.O Box 4026, Jacobs, Durban, South Africa</td>
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<td>785</td>
<td>Identifying the Effectiveness of Business Incubator Training among UPN Veteran Jakarta Undergraduate Students: An Application of Randomized Controlled Trial Approach</td>
<td>Widyanur Wahyuningtyas, Department of Nutrition, Faculty of Health Sciences, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia, Zackharia Ralimi, Department of Management, Faculty of Business and Economics, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia, Condrowati, Department of Physiotherapy, Faculty of Health Sciences, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia, Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia</td>
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<td>161</td>
<td>A Critical Innovative Service Quality Measurement in Achieving Customer Satisfaction: A Lesson from Vietnamese Retail Banking Industry</td>
<td>Y Nhu Ngoc Hoang, School of International Business and Marketing, University of Economics Ho Chi Minh city, Ho Chi Minh city, Vietnam</td>
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<td>National Homicide Police Database, Colombia 2010-2020</td>
<td>Wilson Alexander Pinzón Rueda, Facultad Tecnológica, Universidad Distrital “Francisco José de Caldas”, Bogotá, Colombia</td>
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<td>PESTLE Analysis of Indonesian Family Planning Board (BKKBN)'s Strategic Planning on Implementing Family Planning Program in Indonesia</td>
<td>Nathaniel Vlady Dondokambey, Valda Agila Afranovka, Yola Lista Valentina, and Laras Safitri, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
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<td>236</td>
<td>Technology Service Delivery in Urban Transportation Business Strategy in Indonesia</td>
<td>John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia</td>
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<td>183</td>
<td>A Decision Support System Based On An Integrated AHP And Hierarchical Artificial Neural Network For Transport Energy Demand In Iran</td>
<td>Nilloofar Akbarian-Saravi, School of industrial engineering, College of Engineering, University of Tehran, Tehran, Iran</td>
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<td>520</td>
<td>Analyzing the drivers influencing the implementation of sustainable manufacturing practices using Interpretive Structural Modeling</td>
<td>Sasikumar Perumal, Faculty, Department of Industrial Engineering Technology, Higher Colleges of Technology, Abu Dhabi, United Arab Emirates</td>
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ID 814  The Influence of Work Environment and Compensation on Employee Performance through Job Satisfaction in the Office of the Regional Financial Management Agency Bantaeng Regency
Imna Dwiyantri, Nasruddin Nawawi, Umi Farida, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Geminaastiti Sakkir, Universitas Negeri Makassar, Indonesia

ID 523  Decarbonising supply chain operations
Jay Daniel, Program Leader, MSc Global Operations and Supply Chain Management, Derby Business School, University of Derby, Kedleston Rd, Derby DE22 1GB, UK
C. Kalpani Dissanayake, Assistant Professor, Department of Business and Economics, Pennsylvania State University, 25 Yearsley Mill Rd., Media, PA 19063 USA

10:00 – 11:45 am, TUESDAY  Room 5
Session Chair: KK Lai, Chaoyang University of Science and Technology, Taiwan
ID 331  Password Strength Assessment on a Laptop Device using an Online Password Recovery Tool — Cain & Abel
Eric B. Blancaflor, Michael Rafael A. Dela Cruz, Jephra Mathan V. Española, Luis Rafael V. Laurena, John Wendell J. Maranan, and Marjun Gil D. Pinza, School of Information Technology, Mapua University, Makati City, Philippines
ID 332  Penetration Test on Home Network Environments
Gabriel Edrick Acuña, Luis Antonio Alvarez, Nicolo Mikael Dionisio, John Ramil Funilas, Joshua Millard Odicta, and Eric Blancaflor, School of Information Technology, Mapua University, Makati, Philippines
ID 475  A Secure Middleware Architecture for Real-time Tracking Applications
Achraf Haibi1,2, Kenza Oufaska2, Khalid El Yassini1, Mohammed Boulimal2, 1 IA Laboratory, Faculty of Sciences, Moulay Ismail University, Meknes, Morocco
2 TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Morocco

ID 167  ICT Business Alignment Versus Digital Alignment: Similarities and Differences for Driving Organizational Innovation Management
Hanan Maoz, and Efrat Guli, Department of Management, Track in Technology Management , Bar-Ilan University, Ramat-Gan, Israel
ID 293  Improving Efficiency and Effectiveness in the Development of Customised Software Solutions: A Case Study in a Service Oriented Company
Manuel Fernandes (1) and Américo Azevedo (1, 2)
(1) Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, 4200-465 Porto
(2) INESC TEC, Rua Dr. Roberto Frias, Campus da FEUP, 4200-465 Porto
ID 297  Relating Information Technology / Systems to Strategy: An Extended Framework
RRK Sharma, Dept of IME IIT KANPUR 208016 India
KK Lai, Chaoyang University of Science and Technology, Taiwan
ID 694  The Perceived Effects of Covid-19 on the Preferences and Expectations of Customers of Grocery Stores in Metro Manila
Mikayla Dominique M. Ortega and Renald Redner D. Reveche, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

August 3, 2021 (Tuesday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, TUESDAY  Room 1
Session Chair: Dr. Joseph Ogundu
12:00 – 1:45 pm, Tuesday, August 3
Prof. Dr. Bharat Raj Pahari, PE
Professor
Department of Civil Engineering
Institute of Engineering, Pulchowk Campus
Tribhuvan University (TU)
Pulchowk, Lalitpur, Nepal
12:15 – 1:30 pm, Tuesday, August 3
Dr. Dumitru Burdescu
Professor
University of Craiova
Dolj, Romania
12:30 – 12:45 pm, Tuesday, August 3

Dr. Tom Van Woensel
Full professor of Freight Transport & Logistics
Eindhoven University of Technology
Eindhoven, North Brabant, Netherlands

12:45 – 1:00 pm, Tuesday, August 3

Dr. Wim Van Petegem
Professor
KU Leuven
Leuven, Flemish, Belgium

1:00 – 1:20 pm, Tuesday, August 3

John Ezzo
Founder and CEO
New Image Building Services Inc.
Troy, Michigan, USA

1:20 – 1:40 pm, Tuesday, August 3

Dr. Joseph Ogundu
President
Emerald Global Consulting Inc.
Farmington Hills, Michigan USA

ID 850 Lean Throughput Management in Automotive Assembly and Other Plant Operations

12:00 – 1:45 pm, TUESDAY

Construction Management

Session Chair: Rafiu Dimeji Seidu, London South Bank University, 103 Borough Road, London, SE1 0AA, UK

ID 626 SERVQUAL Model Application: Integration of AHP, Prioritization Matrix, and QFD in Assessing Various Delivery Courier Services in the Philippines
Kianna Denise C. Villapando, Alliah Jane S. Agunos, Anthony A. Sanchez, Leanne Dominique B. Loto, Rianina D. Borres, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 580 Student Perception of Catcalling Activities in The Campus Environment
Nina Siti Salmaniah Siregar, Delvi Windrayani, Nadra Ideyani Vita and Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Wiflihani, Music Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatera, Indonesia
Waridah Pulungan, Government Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 589 The Dynamics Of Indonesian Language Among Students Hasanuddin University In The Era Of Globalization
Asriani Abbas and Kaharuddin, Universitas Hasanuddin Makassar, Sulawesi Selatan

Andi Maulana, Zulfaa Irbahi Zain, and Yafiazmi Dhaniswara, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia

ID 581 Analysis of Communication Management on the handling of Covid-19 in North Sumatra
Dedi Sahputra, Taufik Wal Hidayat, Ilma Saakinah Tamsil and Ara Azua, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Bahrum Jamil, Beltahmamero Simamora, Marlina Deliana and Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 363 Emotional Intelligence Training in Construction Project
Ali Reza Afshari, Department of Industrial Engineering, Shirvan Branch, Islamic Azad University, Shirvan, Iran
Nazi Ghamkhar, Department of Construction Management, Masjhad Branch, Islamic Azad University, Mashhad, Iran

ID 471 Experimental Test for Compressive Yield Strength of Cold Form Steel C Profile from X and Y Product
Mudjanarko, SW and Bahaswan, R. Department of Civil Engineering, Polinama Negeri Malang, Malang, 65141, INDONESIA
Achfas Zacoeb, Department of Civil Engineering, Brawijaya University, Malang, 65141, INDONESIA
Ramadhasnasyah Putra Jaya, Departement of Civil Engineering, Universiti Malaysia Pahang, Malaysia
Mohd Haziman Wan Ibrahim, Department Jabatan Kejuruteraan Awam, Universiti Tun Hussein Onn Malaysia, Malaysia
Mohd Fadzil Bin Arshad, Departement of Civil Engineering, Universiti Teknologi MARA, Malaysia
Firdaus Pratama Wiwoho, Departement of Environmental Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60117, INDONESIA
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<td>Following the trail: a covariance plotting of the crippling effect of COVID-19 on small and medium sized SMEs firms in the UK's Construction Industry</td>
<td>Rafiu Dimeji Seidu, Bert Ediale Young, Joseph Kangwa, John Obas Ebohon, and Olubisi Ige, School of the Built Environment and Architecture, London South Bank University, 103 Borough Road, London, SE1 0AA, UK</td>
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<td>503</td>
<td>Data Analytics in Predictive Maintenance – Operator 4.0 Integration in Production Process</td>
<td>Felicita Chromjakova, and Lucie Hrbackova, Department of Industrial Engineering and Information Systems, Faculty of Management and Economics, Tomas Bata University in Zlín, Mostnì 5139, 76001 Zlín, Czech Republic</td>
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<td>Investigation of Economic and Social Factors Affecting Population Growth in Iran: An Econometric Approach</td>
<td>Hadi Mohammadi and Seyed Farid Ghaderi, School of Industrial Engineering, College of Engineering, University of Tehran, Tehran, Iran Mehran Moazen, Department of Industrial Engineering, Sharif University of Technology, Azadi St., Tehran, Iran</td>
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<td>076</td>
<td>Food Industry Packaging System Assessment Model</td>
<td>Astrid Oddershede, Cristian Mejias, Luis Quezada, Pedro Palominos, Department of Industrial Engineering, University of Santiago of Chile, Santiago, Chile</td>
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<td>054</td>
<td>Determining Appropriate Location for University by a Multi Criteria Decision Making Method</td>
<td>Pınar Miç, Department of Management Information Systems, Faculty of Economics and Administrative Sciences, Tarsus University, 33400 Tarsus, Mersin, Turkey Z. Figen Antmen, Industrial Engineering Department, Engineering Faculty, Çukurova University, 01330 Sarıçam, Adana, Turkey Nesilihan Gümüşlü, MSc Student at Industrial Engineering Department, Engineering Faculty, Çukurova University, 01330 Sarıçam, Adana, Turkey</td>
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<td>822</td>
<td>The Influence of Work Discipline and Job Promotion on Employee Performance through The Motivation of PT Saptasaritama Makassar</td>
<td>Suherman, Baharuddin Baharuddin, Andi Tenri Fitriyah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia</td>
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<td>823</td>
<td>Analysis of Work Capability with Organizational Culture and Time Management on State Civil Apparatus Performance at the Community and Village Empowerment Service of South Sulawesi Province</td>
<td>Ramliam, Hendra Gunawan, Buyung Romadhoni, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Lukman Yudho Prakoso, Universitas Pertahanan Republik Indonesia, Bogor, Indonesia</td>
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<td>384</td>
<td>Rational Decision-Making in Purchasing Medical Devices</td>
<td>Gulsum Kubra Kaya, Faculty of Engineering and Natural Sciences, Industrial Engineering, Istanbul Medeniyet University, Istanbul, 34700, Turkey</td>
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<td>Sequential Rule Mining for Analysis of Customer Movements in Different Visits</td>
<td>Pelin Yıldırım Taser, Computer Engineering Department, İzmir Bakircay University, İzmir, Turkey Onur Dogan, Industrial Engineering Department, İzmir Bakircay University, İzmir, Turkey</td>
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<td>022</td>
<td>Stylistic Design Engineering (SDE) framed inside IDES (Industrial Design Structure) to conceive a new future citycar</td>
<td>Giampiero Donnici, Alfredo Liverani, Sara Aiello, Lorenza Martinelli, and Alfonso Salzano, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, viale Risorgimento 2, 40136 Bologna, Italy</td>
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<td>206</td>
<td>Tribological Characterization of Hybrid CFRP Polymer Composite</td>
<td>Ch. Siva Rama Krishna, Research Scholar, Department of Mechanical Engineering, College of Engineering, Andhra University, Visakhapatnam, Dr. N. Ramaiah, Professor, Department of Mechanical Engineering, College of Engineering, Andhra University, Visakhapatnam</td>
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<td>Tensile and Wear Behaviour of Precipitation Hardening AA7xxx</td>
<td>Phaneendra, P. Harisha, K. TaraniKanth, N. Niranjan Kumar, Bh. Nagesh, Department of Mechanical Engineering, Vignan's Institute of Information Technology, VSKP, Department of Marine Engineering, AU college of Engineering Andhra University, VSKP, Adjunct Professor in Naval Architecture &amp; Marine Engineering, Indian Maritime University</td>
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<td>On the Effect of Layer Thickness and Cutting Orientation of Laser Powder Bed Fused Ti6Al4V Parts during Wire Electric Discharge Machining</td>
<td>Abdullah AlFaiy, Industrial Engineering Department, College of Engineering, King Saud University, P.O. Box 800, Riyadh 11421, Saudi Arabia</td>
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ID 573  Anomalies Detection in Smart Manufacturing Using Machine Learning and Deep Learning Algorithms
Mohamed Gamal, Production Engineering Department, Faculty of Engineering, Nahda University, Beni-Suef 62521, Egypt
Ahmed Shaban, Electrical Engineering Department, Faculty of Engineering, Nahda University, Beni-Suef 62521, Egypt
Francesco Costantino, Giulio Di Gravio and Riccardo Patriarca, Mechanical and Aerospace Engineering Department, Sapienza University of Rome, Via Eudossiana, 18, 00184 Rome, Italy

ID 574  Fabrication and Optimization of Smoke Wind Tunnel
Roger Pui Chow Yen, School of Mechanical Engineering, Curtin University of Technology, Sarawak Campus, CDT 250 98009 Miri, Sarawak, Malaysia, Chua Han Bing, Chemical Engineering, Curtin University of Technology, Sarawak Campus, CDT 250 98009 Miri, Sarawak, Malaysia, Sarder Elius Sadique, Alumni, National University of Singapore, 9 Engineering Drive 1, Singapore 117575

ID 092  Assessing the Synergies and misalignments between Lean and Industry 4.0 practices in today’s manufacturing shop-floors
Antonio Sartal, Facultad de Ciencias e Tecnología, Universidade Nova de Lisboa, Campus Universitario, Caparica 2829-516, Portugal
Josep Llach, Mechanical and Industrial Engineering Department, Campus de Montilivi, 17071 Girona

ID 451  Blockchain for Agri-Food Supply Chain Traceability
Rafael Granillo-Macias and Isidro J. González-Hernández, Universidad Autónoma del Estado de Hidalgo, Campus Sahagún, Tepeapulco, Hidalgo, México
Elias Olivares-Benitez, Facultad de Ingeniería, Universidad Panamericana, Zapopan, Mexico

ID 026  Challenges in Autonomous Vehicle Development
Annamalai Pandian, Mechanical Engineering Department, Saginaw Valley State University, University Center, MI 48710, USA

ID 778  Mechanical Characterization of Hybrid CFRP Composite
Ch. Siva Rama Krishna, Ph.D Scholar, Department of Mechanical Engineering, College of Engineering, Andhra University, Visakhapatnam
Dr.N.Ramanaiah, Professor, Department of Mechanical Engineering, College of Engineering, Andhra University, Visakhapatnam

August 3, 2021 (Tuesday): 2:00 – 5:00 pm
KEYNOTES - Room 1
2:00 – 2:20 pm  Welcome Address
Prof. Livio De Santoli
Deputy Rector of Sustainability
Sapienza – University of Rome
Rome, Italy

2:20 – 3:00 pm  Keynote I (Opening Keynote):
Di Paola Galloni Jean Luc
VALEO; EXTRAC Operational Vice-Chairman

3:00 – 3:40 pm  Keynote II:
Dr. Tomohiko Sakao
Professor of Sustainable Product/Service Systems
Linköping University, Sweden
3:40 – 4:20 pm  Keynote III:

Dr. Dominik Matt  
Professor of Production Systems Technologies  
Faculty of Science and Technology  
Free University of Bozen-Bolzano, Italy  
Director, Research Center Fraunhofer Italia in Bolzano

4:20 – 5:00 pm  Keynote IV:

Dr. Donald Huisingh  
Professor of Sustainable Development  
University of Tennessee, Knoxville, USA

August 3, 2021 (Tuesday) - Session: 5:00 – 6:45 pm

5:00 – 6:45 pm, TUESDAY  
Global Engineering Education IV  
Room 1

Session Chair: Dr. Noha Mostafa, The British University in Egypt

5:00 – 5:20 pm, Tuesday, August 3

Dr. Antonis Asimakopoulos  
Lecturer  
Engineering Department  
Mediterranean College  
Thessaloniki, Greece

5:20 – 5:40 pm, Tuesday, August 3

Prof. Dr.-Ing. Egon Müller  
Director Institute of Industrial Sciences and Factory Systems  
Chemnitz University of Technology  
Chemnitz, Germany

5:40 – 6:00 pm

Professor Mohamed Essaaidi  
Professor  
ENSIAS College of Engineering  
Mohamed 5 University  
Rabat, Morocco  
New trends in engineering education

6:00 – 6:20 pm, Tuesday, August 3

Dr. Milan EDL  
Dean of Faculty of Mechanical Engineering  
President of Czech Smart City Cluster  
University of West Bohemia  
Pilsen, Czech Republic

6:20 – 6:40 pm, Tuesday, August 3

Dr. Noha Mostafa  
Assistant Professor of Industrial Engineering and Management  
The British University in Egypt
ID 576  Mathematical Analysis of Supply Chain Optimization Focusing on Right Supplier Selection and ANN in Apparel Manufacturing Industry
Shibbir Ahmad and Mohammad Kamruzzaman, Department of Mechanical Engineering, Dhaka University of Engineering & Technology (DUET), BIDS, Gazipur 1700, Bangladesh

Trust Mahove and Stephen Matope, Industrial Engineering Department, Stellenbosch University

ID 305  Applications of Augmented Reality to Reduce Risk in Supply Chain Management
Angela Colabella, Collette Lee, Lane Pledger, Monique Cendejas, Vikrant Manmema and Mohamed Awwad, Industrial and Manufacturing Engineering Department, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 630  Deadlock and Collision Prevention Algorithms for Mobile Robots in Automated Warehouses
Ecem Eroglu Turhanlar and Banu Yetkin Ekren, Department of Industrial Engineering, Yasar University, Izmir, Turkey

ID 304  Effects of COVID-19 on United States Food Industry and Sharing Economy
Cade Alonzo, Roger Chevalier, Nick Medieti, Jack Surydk, Andy Wei and Mohamed Awwad, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 248  An Optimization Model for Sizing Decisions of Grid-Connected Photovoltaic System
Ahmed M. Atta, Department of Systems Engineering, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

ID 113  Assessment model the solution of availability of raw water for purification in the Metropolitan Region in Chile
Claudio Macuada, Astrid Oddershede, Luis Quezada and Pedro Palominos, Department of Industrial Engineering, University of Santiago of Chile, Santiago, Chile

ID 013  Design of a Sustainable Solar Vegetable Dryer for Small Scale Farmers
Ignatio Madanhire, Department of Quality and Operations Management, School of Engineering Management, Faculty of Engineering and The Built Environment, University of Johannesburg, Johannesburg, South Africa
Arnold Mawone, Department of Mechanical Engineering, University of Zimbabwe, Harare, Zimbabwe

ID 024  Effects of Climatic change on Food Grain Production in Indian Terrian
Neeraja, Haryana School of Business, Guru Jambheshwar University of Science and Technology, Hisar, Haryana 125001
Shashikant Yadav, Department of Chemical Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar (Punjab) India

ID 201  Electric Vehicle Optimization and Analysis of Battery Wear during Vehicle-to-Grid Operation
Ona Egbue, Department of Informatics and Engineering Systems, University of South Carolina Upstate, Spartanburg, SC 29303, USA

ID 204  Energy Efficient Building Design & Performance from Simulations
Omer Saleem, Department of Civil Engineering, National University of Computer & Emerging Sciences, (NUCES), FAST Lahore Pakistan
Saifeer Abbas, Department of Civil Engineering, University of Engineering & Technology (UET), Lahore, Pakistan
Saman Shahid, Department of Sciences & Humanities, National University of Computer & Emerging Sciences, (NUCES), FAST Lahore Pakistan
Shahid Ali, Department of Civil Engineering, National University of Computer & Emerging Sciences, (NUCES), FAST Lahore Pakistan

ID 321  Contribution of Biomethane to Reduce CO2 Emissions from Agricultural Tractors Fleet: A Theoretical Approach
Giulia Barucco, Niccolò Pampuro and Eugenio Cavallo, Istituto di Scienze e Tecnologie per l'Energia e la Mobilità Sostenibili (STEMS), National Research Council of Italy (CNR), Strada delle Cacce, 73, 10135 Torino, ITALY

ID 650  Application of Lean to Optimize Facility Layout: A Case Study of an Automotive Supplier
G Bhavani, Assistant Professor, Department of Mechanical Engineering Vignan's Institute of Information Technology, Duvvada, Visakhapatnam-17
Tarani Kanth Kamma, Assistant Professor, Department of Mechanical Engineering Vignan's Institute of Information Technology, Duvvada, Visakhapatnam-17
N V S Shankar, Associate Professor, Department of Mechanical Engineering Vignan's Institute of Information Technology, Duvvada, Visakhapatnam-17

ID 051  Condition Analysis and Condition Compatibility of Oyster Mushroom Farming in Mother Rita Homes
John Paolo A. Isip, Edna F. Dayao, Meizl Ann Y. Fercia, College of Information Technology and Engineering, La Consolacion University Philippines, Bulacan, Philippines

ID 310  Crude Palm Oil Waste Treatment Facility with Carbon Tax Benchmarking
Michael Sembiring, Department of Logistics Engineering, Universitas Pertamina, Jakarta, 12220, Indonesia
Dina Nurul Fitria, Principal, Amina Research & Business Consulting, Jakarta, 12190, Indonesia
A.A.N. Perwira Redi, Industrial Engineering Department, BINUS Graduate Program - Master of Industrial Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 180  Elderly Care Facility Network Design under Climate Change Disasters: Theoretical and Empirical Analyses
Mahsa Madani Hosseini, Ted Rogers School of Management, Ryerson University, 55 Dundas St W, Toronto, ON M5G 2C3, Canada
Manaf Zargoush, Health Policy and Management, DeGroote School of Business, McMaster University, Hamilton, L8S 4L8, Canada

ID 234  Optimization of the production flow for a machine and tool shop: A Case Study
Mauricio A. Ramírez-Crespo, Yakcleem Montero-Santos and Ramiro V. Saraguro Piarpuezan, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador

ID 500  Simple and Capacitated Plant Location Problem: Forward and Reverse Logistics
RRK Sharma, Department of IME IIT Kanpur 208016 India
Vinay Singh, ABV-IIITM Gwalior-474015, India
ID 815 The Effect of Regional Original Income (PAD), Balancing Funds on Economic Growth through the Human Development Index (IPM) in Central Mamuju Regency

ID 425  Facility Layout Design Tools Comparison: A Case Study of a SME in Electronic Industry
Marlene Brás, Department of Economics, Management, Industrial Engineering and Tourism, University of Aveiro, Aveiro, Portugal
Ana Moura, Department of Economics, Management, Industrial Engineering and Tourism, GOVCOPP – Systems for Decision Support Research Group, University of Aveiro, Aveiro, Portugal

5:00 – 6:45 pm, TUESDAY Supply Chain Room 5
Session Chair: Mehrasa Eskandari, Université Laval, Québec, QC Canada

ID 524  How to Improve Data Quality in Supply Chain? A Literature Survey
Jay Daniel, Program Leader, MSc Global Operations and Supply Chain Management, Derby Business School, University of Derby, Kedleston Rd, Derby DE22 1GB, UK
Drew Stapleton, Professor of Supply Chain Management, Mechanical and Industrial Engineering Department, University of Wisconsin La Crosse, 1725 State Street La Crosse, WI 54601, USA

ID 121  Integration of Freight Distribution Services: A Case Study in Indonesia
Reslyana Dwitasari, Suci Susanti, and Zusnita Meyrawati, Ministry of Transportation, Jakarta, Indonesia
Munawir Bangsawan, Milenialinstitute.id, Jakarta, Indonesia
Yandra Rahadian Perdana, Department of Industrial Engineering - Faculty of Science and Technology, Sunan Kaliigga State Islamic University, Yogyakarta, Indonesia

ID 12  LINKING ASSEMBLING TO ORDER TO CUSTOMER SATISFACTION IN THE SOUTH AFRICAN AUTOMOBILE SUPPLY CHAIN
Polycarpe Feussi, 2Innocents E Edoun and 3Charles Mbohwa, Faculty Regulations for Engineering and the Built Environment University of Johannesburg, South Africa, Kingsway Rd and, University Rd, Auckland Park, Johannesburg

ID 179  Public-Private Partnership to Secure Containerized Supply Chains
Mohammad Nikoofal, Ted Rogers School of Management, Ryerson University, Toronto, Canada
Morteza Pourakbar, Rotterdam School of Management, Erasmus University, Rotterdam, Netherlands
Mehmet Gumus, Desautels Faculty of Management, McGill University, Montreal, Canada

ID 369  Role of technology in detecting counterfeit drugs in the forward pharmaceutical supply chain
Mona Haji, Laoucine Kerbache and Mahaboob Sheriff K M, Logistics and Supply Chain Department - College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

ID 407  Sourcing Strategies for Adopting in-house Additive Manufacturing (AM) in the Automotive Supply Chain- A Post-COVID-19 Perspective
Mahaboob Sheriff K M (1) and Laoucine Kerbache (1,2)
(1) Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University Education City, Qatar Foundation, P.O. Box. 34110, Doha, Qatar.
(2) HEC Paris, Qatar.

ID 417  Inter-firm Collaboration in the Forest Products Industry: A Literature Review
Mehrasa Eskandari, Nadia Lehoux, and Caroline Cloutier, Department of Mechanical Engineering, Université Laval, 1065 avenue de la Médecine, Québec, QC Canada

ID 584  Supply Chain Risks: A Review Study
Mounia Haflani, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Mariam Maslouhi, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Laila El Abbadi, Engineering sciences laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Global Engineering Education V

Panel Chair:
Dr.-Ing. Patrick Dallasega
Assistant Professor
Industrial Engineering and Automation
Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen-Bolzano Italy

Panel Speaker I
Haleh Byrne
Product Lead – Industrial & Systems Engineering & Student Projects
North Carolina State University
Raleigh, North Carolina, United States

Panel Speaker II
Honorary Chair, Chief Mentor & Senior Advisor, Core Advisory Committee at the World Assessment Council
Consultant, Horizon 2020
Adjunct Professor, University of Maryland University College
Lynchburg, Virginia, United States

Panel Speaker III
Ismail Suardi Wekke
Institut Agama Islam Negeri (IAIN) Sorong
Sorong, 98417, Indonesia
The Development of Yapis for Higher Education on Science and Technology in Tanah Papua

Panel Speaker IV
Professor Seifedine Kadry
Department of Applied Data Science
Noroff University College
Kristiansand, Norway

Panel Speaker V

Supply Chain and Logistics Competition

Session Chair: Dr. Mario Fargnoli, Sapienza - University of Rome

ID 301  Impact of COVID-19 on the Trucking Industry
Hudson Brooks, Rachel Davis, Jack Dwyer, Isabella Kew, Nicky Rodriguez and Mohamed Awwad, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 582  Strategic Logistics And Operations Management Practices: Adding Value To The Manufacturing Value Chains & Trade
Thakaramahla Lehohla, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
Pule Kholopane, Faculty of Engineering and the Built Environment, Vaal University of Technology, South Africa

ID 302  The Effects of COVID-19 on the California Metal Casting Industry Supply Chain
Alex Garcia Cruz, Cole Pike, Elliott Hofferth, Balthazar Olivier, Hunter Baird-Wise and Mohamed Awwad, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 303  The Global COVID-19 Vaccine Supply Chain
Darion Guan, Hanley Kerh, Lauren Knott, Ethan Norman, Jack McGuinness and Mohamed Awwad, Industrial and Manufacturing Engineering Department, California Polytechnic State University, San Luis Obispo, CA 93407, USA

ID 469  The Role Of Regulatory Resilience In Supply Chain Optimization: A Case Study
Saloua SAID and Hafida BOULOIZ, Systems engineering and decision support laboratory, ENSA, Agadir, Morocco
Maryam GALLAB, MIS - LISTD Laboratory, Department of Computer Science, ENSMR, Rabat, Morocco
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<td><strong>ID 007</strong> A Sustainable Supply Chain of a Coal Power Plant Use of Electrostatic Precipitators&lt;br&gt;Asmaa EL BOURI CAMEL, Khalid BENHIDAJ and Said ELFEZAJI, Laboratory LAPSSII, EST de Safi, CED : Sciences de l’ingénieur, FST de Marrakech, Maroc</td>
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<td><strong>ID 099</strong> Consistent Allocation of Emission Responsibility in Fossil Fuel Supply Chains&lt;br&gt;Daniel Granot Sauder School of Business, University of British Columbia Vancouver British Columbia Canada</td>
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<td><strong>ID 182</strong> Multicriteria Sustainability Assessment and Decision Making for Alternative Fuel Vehicles Using Neutrosophic Fuzzy Sets&lt;br&gt;Murat Kucukvar, Abdelmagid Hamouda, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar&lt;br&gt;Nuri Cihat Önal, Nour N. M. Aboushaqrah, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar&lt;br&gt;Berk Ayvaz, Department of Industrial Engineering, Istanbul Commerce University, Istanbul, Turkey</td>
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<td>Ali Osman Kusakci, Department of Management, Ibn Haldun University, Istanbul, Turkey</td>
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<td><strong>Cars on Weight Loss: The Development of a Methodology for the Topology Optimization of Monolithic Components – Emerging Trends, Challenges and Opportunities&lt;br&gt;Gibson P. Chirinda, Department of Industrial Engineering, University of Stellenbosch, Stellenbosch, South Africa&lt;br&gt;Stephen Matope, Department of Industrial Engineering, University of Stellenbosch, Stellenbosch, South Africa&lt;br&gt;Andreas Sterzting, Fraunhofer Institute for Machine Tools and Forming Technology, Fraunhofer Institute, Chemnitz, Germany</strong></td>
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<td><strong>ID 385</strong> Development of an energy monitoring and control interface for the forest products industry&lt;br&gt;Thomas Hernández, Nadia Lehoux, Louis Gosselin, Department of Mechanical Engineering, Université Laval, Quebec City, QC, Canada</td>
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<td><strong>ID 057</strong> Exploring Linkages between Sustainable Manufacturing Strategy and Total Productive Maintenance Pillars: A Systematic Literature review&lt;br&gt;Tushar Khatri, Student, B.Tech (Mech. Engg.), Thapar Institute of Engineering and Technology, Patiala city, Punjab state, India&lt;br&gt;Jitendar K. Bittoo, CEO, Metallin (Asia) Recyclers, LLP, Gurgaon, Haryana state, India</td>
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<td><strong>ID 716</strong> The Road to Sustainable Development in the Fashion Industry: The Johannesburg Fashion District&lt;br&gt;Dineo Mpati, Kudzo Foundation South Africa</td>
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<td><strong>ID 119</strong> A Systematic Review of Indicators Used to Measure Industrial Sustainability&lt;br&gt;Azemeraw Tadesse Mengistu and Roberto Panizzolo, Department of Management and Engineering, University of Padova, Vicenza 36100, Italy</td>
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<td>Ali Elkamel, Chemical Engineering Department, University of Waterloo, Waterloo, ON N2L3G1, Canada</td>
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<td><strong>ID 447</strong> Model predictive control and optimization of penicillin bioreactors via radial basis function neural networks&lt;br&gt;Lucas Stracieri, Chemical Engineering Department, University of Waterloo, Waterloo, ON N2L3G1, Canada</td>
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<td>Hedia Fgaier, Full Sail University, 3300 University Blvd, Winter Park, FL 32792, United States &amp; Valencia College, Orlando, FL 32811, United States</td>
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<td><strong>ID 079</strong> Modeling Using Discrete Event Simulation: Production of Converter Kit for Small-Scale Fishers in Indonesia - A Case Study&lt;br&gt;Cindy Natasha Lalita, Maraya Ghassani Santos, and Zahra, Industrial Engineering Department, Universitas Indonesia, Depok, West Java, Indonesia</td>
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<td><strong>ID 108</strong> Optimization Analysis in a New Engine Block Manufacturing System Using Simulation Approach&lt;br&gt;Khaleel Al ithawi, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA&lt;br&gt;Kingman Yee, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA&lt;br&gt;Sabah Abro, Engineering Technology Department, Lawrence Technological University, Southfield, MI 48075, USA</td>
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<td>M. Ishthaq Hussain, General Motors Powertrain Pontiac, 823 Joslyn Ave Pontiac, Michigan, USA</td>
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<td><strong>ID 109</strong> Using Design of Experiment &amp; Steepest Descent Methodologies to Improve Cooling Process in Engine Block Manufacturing System&lt;br&gt;Khaleel Al ithawi, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA&lt;br&gt;Kingman Yee, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA&lt;br&gt;Sabah Abro, Engineering Technology Department, Lawrence Technological University, Southfield, MI 48075, USA</td>
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<td><strong>ID 826</strong> Analysis of Human Capital on Teacher Performance Through Discipline and Professionalism in the Technical Implementation Unit of State Senior High School S Jeneponto&lt;br&gt;Resa Nur Arpami, Mustari, and Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia</td>
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<td>Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Indonesia</td>
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<td><strong>ID 828</strong> The Dynamics Of Indonesian Language Among Students Hasanuddin University In The Era Of Globalization&lt;br&gt;Asriani Abbas and Kaharuddin, Universitas Hasanuddin Makassar, Sulawesi Selatan, Indonesia</td>
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<td><strong>ID 829</strong> Monitoring System with Closed-Circuit Television (CCTV) to Restrict the Growth of COVID-19 in a Smart City Network&lt;br&gt;Juavira Fathima, India</td>
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ID 830  Morphological Multivariate Discrimination of Parlatoria cakiloidea Boissm
Mahmoud Dogara Abdurahman, Department of Biology, Faculty of Education, Tishk International University, Erbil/Iraq

ID 110  Using Design of experiment &Steepest Ascent Methodologies to Improve Air Leak Testing in Engine Block Manufacturing System
Khaleel Al ithawi, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA
Kingman Yee, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA
Sahab Abro, Engineering Technology Department, Lawrence Technological University, Southfield, MI 48075, USA
M. Ishtiaq Hussain, General Motors Powertrain Pontiac, 823 Joslyn Ave Pontiac, Michigan

7:00 – 8:45 pm, TUESDAY  Transport and Traffic  Room 5
Session Chair: Diego Karachas Rodriguez, Facultad de Ciencias Empresariales, Corporacion Universitaria Minuto de Dios, Bogotá, Colombia

ID 477  A GIS-based spatio-temporal assessment of motorized versus non-motorized road users collisions hot spots
Ouni Fedy, Department of Transportation and Logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Tunisia
Attig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia
Harizi Riadh, Department of Business Administration, University of Bisha, Bisha, Saudi Arabia, College of Business, BISHA, 61922, Saudi Arabia

ID 647  Application of a Multiple Carrier Cashless Payment System for Public Transportation in Metro Manila: A New Normal Perspective
Richard Jerome L. Caya, Fritz Gerard B. Hernandez, and Marvin I. Noroha, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St, Intramuros, Manila, 1002 Metro Manila, Philippines

ID 055  Mobility Problems with Predicted Uncertainties in Transportation Network due to Storm Impacts
Ketut Gita Ayu and Pitu Mirchandani, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ, USA

ID 482  Road Accident Rate Bogotá, Colombia, 2015- 2019
Diego Karachas Rodriguez, Facultad de Ciencias Empresariales, Corporacion Universitaria Minuto de Dios, Bogotá, Colombia
Wilson Alexander Pinzón Rueda, Facultad Tecnológica, Universidad Distrital “Francisco José de Caldas, Bogotá, Colombia
Carlos Andrés Arango Londoño, Departamento de Ingeniería Industrial, Universidad de La Salle, Bogotá, Colombia
Jose Martín Díaz, Facultad de Ciencias Empresariales, Corporacion Universitaria Minuto de Dios, Bogotá, Colombia
Fernando Augusto Poveda Aguja, Maestría en Educación, Corporacion Universitaria Minuto de Dios UNIMINUTO,
Fidel Andrés Olarte Bustos, RealData S.A.S., Bogotá D.C, Colombia

ID 821  The Effect of Education and Economic Ability on Elderly Care through Health Services in the Durikumba Health Center Work Area, Karossa District, Central Mamuju Regency
Alphonsa Sampe, Rasyidin Abdullah, Gunawan B. Ilyas, Magister Program, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia, Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 765  ANALYSIS OF PAVEMENT THICKNESS PLANNING AND OVERLAYING METHOD ON TRANS SUMATERA TOLL ROAD, PEKANBARU – DUMAI SECTION 4A
(MSTA 56+400 – 58+400)
Muhammad Isradi, Indah Suryaningtyas, Amar Muftidin, Widodo Budi Dermawan, Faculty of Engineering, University Mercu Buana Jakarta, Indonesia, Joeowo Prasetyo, Faculty of Engineering, University Tun Hussein Onn Malaysia, Malaysia, Andri Irfan Rifai, Faculty of Civil Engineering and Planning, University of International Batam, Indonesia

August 4, 2021 (Wednesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, WEDNESDAY  Industry Solutions and Industry 4.0 - I  Room 1
Session Chair: António de Amorim

8:00 – 8:20 am (Wednesday, August 4) – Room 1
Carlo Bonato
Lean Manufacturing Senior Expert – Supply Chain Management Senior Expert - Six Sigma Senior Expert
Productility srl
Monza e Brianza, Lombardy, Italy

8:20 – 8:40 am (Wednesday, August 4) – Room 1
Dr. Danilo Mascolo
Chief Innovation and Technology Officer/Chief Services Officer/Scientific Director
B-REX, the Emilia-Romagna Competence Center of Industry 4.0
Bologna, Emilia-Romagna, Italy

8:40 – 9:00 am (Wednesday, August 4) – Room 1
Dimitri Cayard
Industrial Engineer
Graduate Student Researcher (Ph.D. Candidate)
Innovation Engineering Lab

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ID 840 Potential Effectiveness of Quality Tools and Techniques to Introduce Total Quality Management (TQM) in Ready Made Garment (RMG) Manufacturing Industries in Bangladesh
Md Mazharul Habib, (PhD student)
Dr Michele Cano (Director of Studies, Senior Lecturer)
Dr Evi Viza, (Sr. Lecturer) and
Dr Andisheh Bakhshi, (Lecturer)
School of Computing Engineering and Physical Sciences (CEPS)
University of the West of Scotland (UWS)
Paisley, UK
9:20 – 9:40 am (Wednesday, August 4) – Room 1
António de Amorim
Project Manager, Serious Incidents & Communication
Vestas
Viana do Castelo, Viana do Castelo, Portugal

8:00 – 9:45 am, WEDNESDAY Reliability and Maintenance Room 2
Session Chair: Seong-Jun Kim, Gangneung-Wonju National University, Wonju, Gangwon Province, Korea Republic
ID 585 Availability analysis of a two-component parallel system under stochastic dependence
Ziyad BAHOU, MOAD6, Mohammadia School of Engineers, Mohammed V University, Rabat, Morocco
Nizar ELHACHEMI, MOAD6, Mohammadia School of Engineers, Mohammed V University, Rabat, Morocco
Najiba SBIHI, MOAD6, Mohammadia School of Engineers, Mohammed V University, Rabat, Morocco
Abdessamad Aït El Cadi, LAMIH, Université Polytechnique Haut-de-France, Valenciennes, France
Issam KRIMI, LAMIH, BEAR Lab, International University of Rabat, Rabat Business School, Rabat, Morocco
ID 534 Data-Driven Predictive Analysis in Road Tunnels Monitoring
Rossana Coccia, Alessandro Corsini, Fabrizio Bonacina, and Mara Lombardi, Department of Mechanical and Aerospace Engineering –DIMA-Sapienza University of Rome, Via Eudossiana, 18 - 00184 Roma, ITALY
Lorenzo Ricciardi Celsi, Els innovation Hub, Via Sandro Sandri, 81 - 00159 – Roma
Natale Marco Pellicanò, Novella Zangheri, and Nicola Savini, AUTOSTRADE PER L’ITALIA SPA - 50, Via Alberto Bergamini, Roma, Italy
Fabio Santucci, Samuel Salini, and Marzia Malavisi, Movyon (Autostrade Tech), Via A. Bergamini 50- 00159 Roma, Italy
ID 291 Estimation des niveaux de performance et dégradation par la méthode de MARKOV
Kenza Berrada, Brahim Herrou, Laboratoire des techniques industrielles, faculté des sciences et techniques de Fès, Université Sidi Mohamed Ben Abdellah, Fès, École Supérieure de Technologie BP. 2427 Route Imouzzer, Fès
ID 112 Maintenance Management Framework Development for a LPG Manufacturing Industry
Md Shamsuzzoha Sarker and A.R.M. Harunur Rashid, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Board Bazar, Gazipur 1704, Dhaka, Bangladesh
ID 527 Optimization of industrial energy efficiency by intelligent predictive maintenance tools, case of coupling misalignment and unbalance for an industrial system
Ali Elkihel, Laboratory of Engineering, Industrial Management and Innovation, Faculty of Science and Technology of Settat, University Hassan 1er Casablanca, Morocco, Amar Bakdid, Laboratory of Industrial Engineering and Seismic Engineering National School of Applied Sciences ENSA-Oujda, Mohammed Premier University, Oujda, Morocco
Yousra Elkihel, Laboratory of Industrial Technologies and Services, University Sidi Mohamed Ben Abdellah, Fes, Morocco
Hassan Gziri, Laboratory of Engineering, Industrial Management and Innovation, Faculty of Science and Technology of Settat, University Hassan 1er Casablanca, Morocco

ID 253 A Machine Learning based Approach to the Remaining Life Prediction of Underground Corroded Gas Pipes
Seong-Jun Kim, Department of Industrial and Management System Engineering, Gangneung-Wonju National University, Wonju, Gangwon Province, 26403, Korea Republic

8:00 – 9:45 am, WEDNESDAY Business Management Room 3
Session Chair: Indah Purnamaningtyas, Department of Industrial Engineering, Universitas Indonesia
ID 675 Shopping Center Escalator Maintenance Process Using Business Process Re-engineering Approach
Jihan Shohwatu Darussalam and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Indonesia
ID 676 Shopping Centre Recovery Strategy Formulation using SWOT Method
Nadine Mediha and M.Dachyar, Industrial Engineering Departement, Universitas Indonesia, Depok, Indonesia
ID 386 SMEs Business Process Framework to Improve their performance: Systematic Literature Review IS Perspective
Inayatullah, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia
Prasetya Cahya S., Information Systems Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia
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<td>Tech Startup Digital Business Strategy Using Structural Equation Modeling</td>
<td>Adi Kurniawan, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
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<td>The Effect Of Confidence, Motivation, And Innovation On The Interest In Entrepreneurship Of Indonesian Students (Case Study On Students At Telkom University)</td>
<td>Budi Rustandi Kartawinata, Business Administration Program Faculty of Communication and Business, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia</td>
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<td>Investigating the Authority of the Prosecutor as An Alternative for Criminal Case Handling in the Indonesian Justice System</td>
<td>Jamaluddin, Marlia Sastro, Ramziati, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24355, Indonesia</td>
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<td>401</td>
<td>The Impact of Covid-19 on Indonesian Infrastructure Companies: Determine the Company's Survival Strategy</td>
<td>Yvana Sal Sabila, Hanna Fajria Pahlawan and Indah Punamaningtyas, Department of Industrial Engineering, Universitas Indonesia, Kampus Baru UI Depok, Depok 16424, Indonesia</td>
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**8:00 – 9:45 am, WEDNESDAY**

### E-Business and E-Commerce
Room 4

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<td>Determining shifts in Consumer Preferences for Non-Essentials in Improving E-Tailing Fulfillment Experience toward the New Normal</td>
<td>Adrian Paul B. Carandang, Aliana Rose P. Paras, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralia St. Intramuros, Manila, Philippines</td>
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<td>E-CRM Model to Increase Hotel Customer Loyalty</td>
<td>Inayatulloh, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia</td>
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<td>E-learning model for People with Disabilities</td>
<td>Inayatulloh, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia</td>
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<td>Electronic Marketing Model for Higher Education</td>
<td>Inayatulloh, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia</td>
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<td>E-marketplace issues for SMEs: the Technology Acceptance Model approach</td>
<td>Inayatulloh, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia</td>
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<td>E-SCM base cloud technology model for Food Supply in Hotel Industry</td>
<td>Inayatulloh, Information System Department, School of Information System, Bina Nusantara University Jakarta, Indonesia</td>
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<td>646</td>
<td>A Comparative Analysis of Factors Influencing Consumer Preference for e-Shopping and In-Store Shopping Using Structural Equation Modelling</td>
<td>Jamille C. Riguerra and Marvin I. Noroña, School of Industrial Engineering &amp; Engineering Management, Mapúa University, Intramuros, Philippines</td>
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### Engineering Management
Room 5

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<td>The Challenges Affecting the Reliability and Maintainability of Rolling Stock Operating in the Thabazimbi Channel</td>
<td>Avumile Bera, Bheki Makhanya, and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, South Africa Heavy Haul Company, Johannesburg, South Africa</td>
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<td>050</td>
<td>A generic approach for managing uncertainty in execution of large and complex projects: Generic Agile Project Management (GAPM)</td>
<td>Homayoun Khamooshi, The George Washington University Vienna VIRGINIA United States</td>
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<td>An Examination of Emotional Intelligence in UAE Projects</td>
<td>Spa - IEOM Rome Conference PARALLEL SESSIONS - Rome Time August 2-5, 2021 © IEOM Society International 4th European Conference</td>
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</table>
ID 247  The Importance of Post-Mortems in Construction Projects  
Gavin Motswadi and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

ID 695  The Relationship of Career Expectations and Management Initiatives to Employee Engagement and Job Satisfaction of Filipino Millennials  
Jericko L. Samson and Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Intramuros, 1002, Philippines

ID 441  Local Content Requirements in the South African Renewable Energy Independent Power Producer Procurement Programme - With a Focus on Wind  
Andile Mgudlwa, and Jan Harm C. Pretorius, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

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August 4, 2021 (Wednesday) - Session: 10:00 – 11:45 am

**10:00 – 11:45 am, WEDNESDAY**  
**Industry Solutions and Industry 4.0 - II**  
**Room 1**

**Session Chair:** Bruno Alves  
Lead Manufacturing Engineer ADAS ECU  
Aptiv  
Braga, Portugal

10:00 – 10:20 am (Wednesday, August 4) – Room 1  
Alberto Bartolini  
Lean Engineer - Innovation Manager  
Sustainability Manager – Audito Lead Auditor Rating Sostenibilità  
Perugia, Italy

Society 5.0 / Future Industry Innovation-Sustainability

10:20 – 10:40 am (Wednesday, August 4) – Room 1  
Johnny Shahinur Alam MIT ACE, HBS GMP, PMP, ITIL, SSBL, CCNP  
Technical Solutions & Program Director, Ericsson Europe  
Freelancing Consultant, Digital & Business Transformation  
Founder & CEO, Youth Carnival  
Co-Founder & MD Trip Zone  
Dublin, Ireland

10:40 – 11:00 am (Wednesday, August 4) – Room 1  
Dr. Mohd Helmy Abd Wahab  
Principle Research Fellow  
Advanced Telecommunication Research Center  
UTHM, Malaysia

11:00 – 11:20 am (Wednesday, August 4) – Room 1  
Yasar Ajlouni, MSc, PMP  
Project Management Advisor  
Amman, Jordan

11:20 – 11:40 am (Wednesday, August 4) – Room 1  
Koketso Lefatshe  
Brewery Logistics Manager  
Anheuser-Busch InBev  
Gaborone, South-East, Botswana

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**10:00 – 11:45 am, WEDNESDAY**  
**Lean**  
**Room 2**

**Session Chair:** Subrata Talapatra, Khulna University of Engineering and Technology, Bangladesh

ID 025  A Lean Transportation Approach for Improving Routing Operations: A Mexican Case
ID 058 A Robust Optimization Approach to a One-Warehouse/Multi-Retailer Inventory System with Emergency Lateral Transshipment
Hamed Tayebi, Majid Khalili, Department of industrial Engineering Karaj Branch, Islamic Azad University Karaj, Iran

ID 096 Comparing policies for the stochastic multi-echelon multi-period dual sourcing problem
Youssef Boulaksil UAE University Al Ain Abu Dhabi United Arab Emirates

ID 691 The Effects of Green Economic Development (GED) Interventions on the Intention of Recycled Paper-Based Producers to Adopt Sustainable Business Practices (SBP) in the Philippines

10:00 – 11:45 am, WEDNESDAY
Manufacturing
Room 1
Session Chair: Youssef Boulaksil, UAE University, Al Ain, United Arab Emirates

ID 060 Application of Hybrid Grey Relational Analysis (GRA) Approach for Global Green Manufacturing Strategy Selection
Arvind Jayant, Department of Industrial System Engineering, Asian Institute of Technology, Bangkok, Thailand
Vikrant Giri, Department of Management Studies, IIT Delhi, India

ID 46 Refinement To LDR (Linear Decision Rule) Model of Aggregate Planning: Explicit Use of Aggregate Shortage Variables
RRK Sharma, Dept of IME IIT Kanpur 208016 India

ID 045 Refinements To LP Model of Aggregate Planning
RRK Sharma, Dept of IME IIT Kanpur 208016 India

ID 058 A Robust Optimization Approach to a One-Warehouse/Multi-Retailer Inventory System with Emergency Lateral Transshipment
Hamed Tayebi, Majid Khalili, Department of industrial Engineering Karaj Branch, Islamic Azad University Karaj, Iran

ID 096 Comparing policies for the stochastic multi-echelon multi-period dual sourcing problem
Youssef Boulaksil UAE University Al Ain Abu Dhabi United Arab Emirates

ID 691 The Effects of Green Economic Development (GED) Interventions on the Intention of Recycled Paper-Based Producers to Adopt Sustainable Business Practices (SBP) in the Philippines

10:00 – 11:45 am, WEDNESDAY
Technology Management
Room 3
Session Chair: N V S Shankar, Department of Mechanical Engineering, Vignan’s Institute of Information Technology (A), Visakhapatnam, India

ID 199 Life Cycle Sustainability Assessment of Electric Taxis: The for Qatar
Nuri C. Onat, Nour N. M. Aboushaqrah, and Faris Tarlochan, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar
Mural Kucukvar and Abdelmagid S. Hamouda, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

ID 004 The Relationship between Technological Variables and Absorptive Capacity and its effect on Organizational Performance Through Corporate Entrepreneurship Mediation (Case Study: Iranian Banking Industry)
Mahdi Joneidi Jafari BM Tehran Tehran Iran

ID 202 An insight into some productivity and competitiveness improvements in some Indian automobile industries using key business improvement tools Tools for Sustainable Manufacturing and Service Systems Design, Management, and Performance Measurement
Sumit Kumar Sant Longowal Institute of Engineering and Technology Sangrur Punjab India

ID 139 Measuring capacity utilisation of public bus transportation: An application of DEA approach using convex and non-convex technology+
Shivam Kushwahaa and Shankar Prawesha, Department of Industrial and Management Engineering, Indian Institute of Technology (IIT), India

ID 540 Semi-automated Assembly Process Using Arm Manipulator
Ikrom Kambarov a, Abror Hoshimov a, Jamshid Inoyatkhodjaev b, Anna C. Cagliano a
a Department of Management and Production Engineering Department, Politecnico di Torino Corso Duca Degli Abruzzi 24, 10129 - Torino – Italy
b Department of Mechanical and Aerospace Engineering Turin Polytechnic University in Tashkent, Kichik khalka yuli st.17, Tashkent – Uzbekistan

ID 667 Taguchi Method for Optimization to Enhance the Surface Roughness
V. Naga Sudha, K.S.Raghuram, G. Bhavani, Tarani Kanth Kamma, and N V S Shankar, Department of Mechanical Engineering, Vignan’s Institute of Information Technology (A), Visakhapatnam, India

10:00 – 11:45 am, WEDNESDAY
Technology Management
Room 3
Session Chair: N V S Shankar, Department of Mechanical Engineering, Vignan’s Institute of Information Technology (A), Visakhapatnam, India

ID 241 Critical Success Factors as Enablers to Achieve Quality Management System Benefits: an engineering organisational case study
Siyabonga Zwane, Annlizé Marnewick and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

ID 454 Framework Design on Health Care System Resilience: A Fuzzy AHP Approach
Giselle Joy Esmeria, Mary Jean Azuela, Dennis Paul Orge and Mary Grace Valdez, Industrial Engineering Department, De La Salle University, Manila, Philippines

ID 591 Modeling of the logistical processes of a hospital supply chain: The case of the hospital pharmacy of the provincial hospital of Benguerir
Kawtar RETMI, Institute of Biological Sciences, ISSB-P, Mohamed VI Polytechnic University (UM6P), 43 150 Benguerir, Morocco
Fatima OUZAYD, Smart System Laboratory (SSLab), ENSIAS Mohamed V University Rabat, Morocco

ID 761 Application of Statistical Process Control Tools in Sheet Metal Processing System, Subrata Talapatra, Ali Al Mamun, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology
ID 715  Manufacture of Polyls for Commercial Polymers
Flora Elvistia Firdaus, Department of Chemical Engineering, Jayabaya University, Jl.Pulomas Selatan Kav 23, Jakarta Timur-13210, Indonesia, Muhammad Dachyar, Department of Industrial Engineering, Universitas Indonesia, Kampus UI Depok – 16424, Indonesia

10:00 – 11:45 am, WEDNESDAY    Sustainability and Green Systems    Room 5
Session Chair: Nguyen Huy Thien Phuc, International University - Vietnam National University HCM City, Vietnam

ID 714  Turmeric Rhizome (Curcuma domestica Val.) to Catfish (Clarias sp.) Bone Gelatin: An Antimicrobial Protein-Based Films for Escherichia coli
Flora Elvistia Firdaus, Alvira Liviani, Firdelia Putri Ambaratri, Department of Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23 Jakarta – 13210 Indonesia

ID 779  Investigation of Wastewater Discharges from Wet Coffee Processing Plant (WCPP) by using Aeration with Typha- latifolia Plant Treatment Process
Zerihun Asmelash Samuel, Faculty of Civil and Environmental Engineering, Jimma Institute of Technology, Jimma University, Jimma, Ethiopia

August 4, 2021 (Wednesday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, WEDNESDAY    Industry Solutions and Industry 4.0 - III    Room 1
Session Chair: Matteo Casadio Strozzi

12:00 – 12:20 pm (Wednesday, August 4) – Room 1
Dott. Ing. Luca Gualtieri
Research Fellow
Industrial Engineering & Automation (IEA)
Smart Mini Factory Laboratory
Free University of Bozen-Bolzano
Faculty of Science and Technology
39100 Bozen, Bolzano (BZ), Italy

12:20 – 12:40 pm (Wednesday, August 4) – Room 1
M.Eng. Felix Schulze
PhD program in Advanced-Systems Engineering
Industrial Engineering and Automation
Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen-Bolzano, Italy

Interrelationship of Lean Management and Industry 4.0 in the ETO sector

12:40 – 1:00 pm (Wednesday, August 4) – Room 1
1:00 – 1:20 pm (Wednesday, August 4) – Room 1
Gerald Watson
Vice President
Everest Group International, LLC
Sacramento, California, United States

1:20 – 1:40 pm (Wednesday, August 4) – Room 1
Matteo Casadio Strozzi
Project Leader – Six Sigma Certified Master Black Belt
Bonfiglioli Consulting SRL
Bergamo, Lombardy, Italy
ID 668  CFD Analysis of heat transfer through plane, side and bottom finned vessels
V. Naga Sudha, K.S.Raghuram, G. Bhavani, Tarani Kanth Kamma and N V S Shankar, Department of Mechanical Engineering, Vignan’s Institute of Information Technology (A), Visakhapatnam, India

ID 525  On The Effect of Four Interlayers’ Thicknesses with Gradually Varying Thermal Expansion Coefficient Between Dissimilar Welds of 2.25Cr-1Mo Steel and Alloy 800H
Saqib Anwar, Ateekh Ur Rehman, Yusuf Usmani, Ali M. Al-Samhan, Industrial Engineering Department, College of Engineering, King Saud University, P.O. Box 800, Riyadh 11421, Saudi Arabia

ID 360  METHOD TO INCREASE THE HYPALON'S ABRASION RESISTANCE
Fernando Maynez Castellanos, ITESM San Pedro, Nuevo Leon, Mexico

ID 123  The soft side of QFD: a comparative study on customer requirements' prioritization in the food sector
Mario Fargnoli, Department of Chemical Engineering Materials Environment (DICMA), Sapienza University of Rome, Rome, Italy
Nicolas Haber, Davide Platti and Massimo Tronci, Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Italy

ID 844  Digital Tourism, Brand Ambassador, Product Quality, Promotion And Purchase Decisions On Oppo Smartphone In Sidoarjo
Moch. Risal Asrori, Faculty of Economics and Business, Narotama University, Indonesia
Sengguruh Nilowardono, Faculty of Economics and Business, Narotama University, Indonesia
Ani Wulandari, Department of English Language Education, STKIP PGRI Jombang, Jl. Pattimura III Jombang, East Java, Indonesia

ID 847  The Influence of Technology-based PBL Learning Model, Learning Method, Learning Motivation on Entrepreneurship Attitudes in Economics Education Department students of STKIP PGRI Jombang
Munawaroh, Nanik Sri Setyani, and Lina Susilowati, Economic Education Department, STKIP PGRI Jombang, East Java, Indonesia

ID 848  Language Acquisition of Mentally Retarded Student at Sdlb Tunas Harapan Jombang
Tri Rahayu, Mathematics Education Masters Program STKIP PGRI Jombang, Jl. Pattimura III Jombang, East Java, Indonesia

ID 216  Quality for Sustainability: SPC Analysis of Photovoltaic Modules Flash Test
Raid Al-Aomar and Mohamed Al-Shehhi, Master of Engineering Management, College of Engineering, Abu Dhabi University, Abu Dhabi, UAE

ID 712  Agent-Based Modeling of IoT Electric Meters
Mohammed Basingab, Industrial Engineering Department, King Abdulaziz University, Jeddah, 22252, Saudi Arabia

ID 776  Determining and Evaluating the Pyrolysis of Candlenut Shell as an Alternative Energy Sources
Sulhatun, Muhammad, Suryati, Meriatna and Lukman Hakim, Department of Chemical Engineering, Faculty of Engineering, Universitas Malikussaleh, Muara Batu, Aceh Utara, Aceh, Indonesia

ID 233  Joint Optimization of Energy Storage Sizing and Transmission Line Capacities for an Island System
Arya Sevgen and Abdullah Dasci, Business School, Sabanci University, Istanbul, Turkey

ID 003  Multi Period, Single Commodity and Single Stage Warehouse Location Problem with Location, Distribution Inventory and Shortage Costs
RRK Sharma and Piya Ghosh, Dept of IME IIT Kanpur 208016 India
KK Lai, Chaoyang University of Technology, Taiwan
ID 169  Optimal Restoration of Community Structures for Enhancing Interdependent Infrastructure Network Resilience
Yasser Almoghathawi, Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

ID 307  Scheduling of Assembly Systems in the Footwear Industry
João Basto and José Soeiro Ferreira, INESC TEC – Technology and Science, Faculty of Engineering, University of Porto, Porto, Portugal
Rui Diogo Rebelo, INESC TEC – Technology and Science, Porto, Portugal

ID 323  Using AHP to deal with Sectorization Problems
Elif Göksu Öztürk, Ana Maria Rodrigues, José Soeiro Ferreira
INESC TEC - Technology and Science, Porto, Portugal

ID 748  Implementing Artificial Neural Networks to Build Predictive Models for the Annual Honey Production
Carlos Hernández, Álvaro Alvar, Instituto de Ingeniería Industrial y Sistemas, Universidad Austral de Chile, Valdivia, Chile

ID 800  A Comparative Analysis of Machine Learning Algorithms in Stock Prediction
A. Sravani, Computer Science and Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India, Ch. Anusha, Computer Science and Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India, N.V.S. Shankar, Mechanical Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India

ID 801  Diagnosis and Classification of the Diabetes Using Machine Learning Algorithms
Chintam Anusha, Computer Science and Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India, A Sravani, Computer Science and Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India, A Praveen, Computer Science and Engineering, Vignan's Institute of Information technology(A), Visakhapatnam, Andhra Pradesh, India

12:00 – 1:45 pm, WEDNESDAY  Case Studies  Room 5

Session Chair: Maryam G. Irenea, Mapua University, Intramuros, Manila, Philippines

ID 402  Emergent Strategy in the COVID-19 Situation: A Case Study of Tatuis
Ari Nugraheni, Aziati Ridha Khairi, Trisha Amanda, and I Made Ivan Surya Sanjaya, Industrial Engineering Department, Faculty of Engineering Universitas Indonesia, Kampus UI, Depok, 16424, Indonesia

ID 641  Ergonomic Assessment on Roll-on-roll-off Ship Workers
Troy Joseph D. Lauengco, Adrian M. Carandang, and Rianfaña D. Borres, Department of Industrial Engineering and Engineering Management, Mapua University, Manila 1002, Philippines

ID 107  The Effect of Machine Layout on Engine Block Manufacturing System Profitability and Rate of Return
Khaleel Al ithawi and Kingman Yee, A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, MI 48075, USA
Sabah Abro, Engineering Technology Department, Lawrence Technological University, Southfield, MI 48075, USA
M. Ishfiaq Hussein, General Motors - Powertrain / Pontiac, 823 Joslyn Ave. Pontiac, Michigan

ID 095  The Effect of Brand-Relationship Quality on Positive Word-of-Mouth Intention
Mahmut Selami Akin, Business Management, Vocational School of Social Sciences, Istanbul Medipol University, 34810, Beykoz, Istanbul, Turkey
Onur Dogan, Department of Industrial Engineering, Izmir Bakırçay University, 35665, Izmir, Turkey

ID 508  Effects of Online Classes on the Perceived Mental Fatigue: A Case Study of Undergraduate College Students of Mapúa University
Maryam G. Irenea, Frankern Luis S. Malabuyoc Ma. Daniella M. Sobrevilla, Madeline Anne Patrice C. Sy and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines
August 4, 2021 (Wednesday): 2:00 – 5:00 pm

KEYNOTES - Room 1

2:00 – 2:20 pm  Welcome Address: - Room 1

2:20 – 3:00 pm  Keynote V:

Dr. Jihong Yan  
Professor in Industrial Engineering  
Deputy Dean of School of Mechatronics Engineering  
Harbin Institute of Technology, Harbin, China

3:00 – 3:40 pm  Keynote VI:

Dr. Joseph Sarkis  
Foisie Business School  
Worcester Polytechnic Institute  
Worcester, MA, USA

3:40 – 4:20 pm  Keynote VII:

Professor George Boustras  
Editor-in-Chief, Safety Science  
Director at CERIDES - Excellence in Innovation and Technology  
European University Cyprus

4:20 – 5:00 pm  Keynote VIII:

Corrado La Forgia  
VP Operations Manager and Managing Director  
BOSCH VHIT – CR, Offanengo  
Lombardy, Italy

August 4, 2021 (Wednesday) - Session: 5:00 – 6:45 pm

5:00 – 6:45 pm, WEDNESDAY  Industry Solutions IV – PANEL  Room 1

Industry 4.0 Panel

Panel Chair

Dr. Erwin Rauch  
Assistant Professor in Manufacturing Technology and Systems  
Head of the Smart Mini Factory laboratory for Industry 4.0 application  
Free University of Bolzano  
Italy
The role of learning factory labs for teaching Industry 4.0

Panel Speaker I

Junior A. Bennett, P.E., CMfgE, CMfgT, M.Sc. B.Ed, SYL, MJIE, MSME
Lecturer/SEOE Work Experience Coordinator
Leader, UTech Ja Productivity Research Group
Productivity Ambassador
Industrial Engineering Department, School of Engineering
Faculty of Engineering and Computing
University of Technology, Jamaica

Panel Speaker II

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

Panel Speaker III

Prof. Adil Matin
President & Chief Editor
WeTel TV, Nest Film Academy Dubai, World Design Foundation
Dubai, United Arab Emirates

Panel Speaker IV

Prof. Dr. Till Becker
Faculty of Business Studies
University of Applied Science Emden/Leer
Germany

Panel Speaker V

Dr. Poti Chaopaisarn
Assistant Professor
Department of Industrial Engineering
Faculty of Engineering
Chiang Mai University
Chiang Mai, THAILAND

5:00 – 6:45 pm, WEDNESDAY  Senior Design Competition  Room 2
Session Chair: Dr. Nicolas Haber, Sapienza - University of Rome

ID 559  Techno-Economic Analysis of Electrochemical Recovery of Metals from Waste Printed Circuit Boards (PCBs)
Matthew Lam, Aidan O’Gorman, Ryan Schleehahn, and Ali Elkamel, University of Waterloo, Waterloo, ON N2L 3G1, Canada

ID 448  Material Feeder Systems for Manufacturing Operations
Paul Ilovan and Tim Powell, Department of Electrical and Computer Engineering, Lawrence Technological University, Southfield, MI 48075, USA
George Pappas, Department of Electrical and Computer Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 531  No-Hands Health Helper
Laura Silverman, Rachel Kristian, Angeliki Dimopoulos, and Katie Cyster, Department of Electrical & Computer Engineering Lawrence Technological University, Southfield, MI 48075, USA
George Pappas, Department of Electrical, Computer Engineering and Embedded Software Engineering, Lawrence Technological University Southfield, MI 48075, USA

5:00 – 6:45 pm, WEDNESDAY  Operations Research and Management  Room 3
Session Chair: Oya Ekin Karasan, Industrial Engineering Department, Bilkent University, Ankara, Turkey

ID 098  A Combined Approach for Predicting Operational Performance in Port Terminals
Icaro Romolo Sousa Agostino, Satie L. Takeda-Berger and Enzo Morosini Frazzon, Industrial and Systems Engineering Department, Federal University of Santa Catarina, Florianópolis, SC 88040-900, Brazil
Adriano Mendonça Souza, Statistics Department, Federal University of Santa Maria, Santa Maria, RS 97105-900, Brazil

ID 428  Decision support system for production planning in tyre balancing machines
Francisco Reis, Department of Mechanical Engineering, School of Engineering, Polytechnic of Porto, Porto, Portugal
António G. Ramos, Department of Mechanical Engineering, INESC TEC and CIDEM, School of Engineering, Polytechnic of Porto, Porto, Portugal
ID 017 An Assessment of Multiple Stock Management Models to Minimize Total Annual Inventory Cost of Pharmaceutical Drugs: A Case of Community Drugstore XYZ
Lawrence Alenia, Hazel Caparas, Ivy Mar Ramos, Carla Geronimo and Ceejay Mendoza, Department of Industrial Engineering, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 171 Multi Depot Traveling Repairmen Problem with Time Windows: A Mathematical Model and a Metaheuristic
Gozde Onder Uzun, Berna Dengiz and Imdat Kara, Industrial Engineering Department, Baskent University, Ankara, Turkey
Oya Ekin Karasan, Industrial Engineering Department, Bilkent University: Ankara, Turkey

ID 839 Impact of M&A Announcements with Digital Motives towards Stock Price Behavior Of Indonesian Banking Industry During 2019-2020
Grace Natasya Christiadhi, Bandung Institute of Technology, Indonesia

ID 842 Marketing, Student Decisions in Selecting Narotama University as a Higher Education
Asep Kurniawan, Agus Baktiono, Agus Sukoco, Elok Damayanti, Achmad Muchayan, Faculty of Economics and Business, Narotama University, Surabaya, Indonesia
Muhammad Ikhsan Setiawan, Faculty of Civil Engineering, Narotama University, Surabaya, Indonesia
Abdul Taibl Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia
Fauzilah Salleh, Faculty of Business Management and Accounting, Universiti Sultan Zainal Abidin UniSZA, Malaysia

ID 843 Café Tourism, Brand Image And Product Innovation Of Kopi Kenangan, Surabaya, Indonesia
Gladys Adella Permatasari, I Nyoman Sudapet, Agus Baktiono, Agus Sukoco, Elok Damayanti, and Achmad Muchayan, Faculty of Economics and Business, Narotama University, Surabaya, Indonesia
Muhammad Ikhsan Setiawan, Faculty of Civil Engineering, Narotama University, Surabaya, Indonesia
Dzulkifli Mukhtar, Faculty of Entrepreneurship and Business Universiti Malaysia Kelantan
Dani Harmanto, Aeronautical Engineering at De Montfort University UK
Paisal Halim, Department Sociology, Universitas Nasional, Jakarta, Indonesia

5:00 – 6:45 pm, WEDNESDAY  Business Management  Room 4
Session Chair: Cristina González-Garzón, Universidad Técnica del Norte, Ibarra, Ecuador

ID 056 Identifying Causal Relationships in Strategy Maps
Luis Quezada, Pedro Palominos and Astrid Oddershede, Department of Industrial Engineering, University of Santiago of Chile, Santiago, Chile
Hector Lopez-Ospina, Department of Industrial Engineering, Universidad del Norte, Barranquilla, Colombia

ID 613 Optimizing the help desk process in a public institution through a disruptive strategy using a new integrative methodology Bpm-Six Sigma-Kaizen
Rolando Chavez and Lino Quispe, Department of Systems Engineering, San Luis Gonzaga University, Ica, 11000, Peru
Mario Chaucu, Engineering Faculty, Universidad Nacional Tecnológica de Lima Sur, Villa EL Salvador, 15834, Peru

ID 452 Web Application DYAC
Santiago Cedillo, LIDI, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
Catalina Astudillo-Rodriguez, LIDI, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
Priscilla Verdugo-Cardenas, LIDI, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador
Jaqueline Verdugo-Cardenas, LIDI, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador

ID 059 Preparing a Global Workforce with a Local Internship Program
Catherine T. Amelink, Office of the Provost, Vice Provost for Learning Systems Innovation and Effectiveness and Department of Engineering Education, Virginia Tech, Blacksburg, VA 24060, USA

ID 177 The Internet of Things and Big Data a Revolution for Business Logistics in Colombia
Nancy Carolina Carvajal Bautista, Juan David Navarro Reyes, Luis Eduardo Rivera Virgüez and Andrés Mauricio Rojas Gonzalez, Administración Logística, Escuela de Logística del Ejercito Nacional, Bogotá D.C, Colombia

ID 117 Engineered Labour Standards in the Age of Automation
Georges Bishop and Danielle Woodward, G. H. Bishop Global Inc., Caledon Village, ON L7K 3L3, Canada

ID 158 Inventory Model for Raw Material: A Case Study of a Chemical Company
Cristina González-Garzón, Yakcleem Montero-Santos and Ramiro V. Saraguro Piarpuezan, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador

5:00 – 6:45 pm, WEDNESDAY  Energy and Resource Efficiency  Room 5
Session Chair: Lisa B. Bosman, Purdue Polytechnic Institute, Purdue University, West Lafayette, IN 47907, USA

ID 505 Energy-related COVID-19 Studies – A Bibliometric Analysis with Literature Review
Jude James, National Centre for Technology Management (NACETEM), Ile-Ife, Osun State, Nigeria
Industrial Engineering Department, Durban University of Technology, South Africa
Institute of Systems Science, Durban University of Technology, South Africa
Victor Ebin, Voegs Integrated Resources Limited, A41 Adisa Estate, Gudu, Abuja, Nigeria
Abubakar Kazeem, National Centre for Technology Management (NACETEM), Ile-Ife, Osun State, Nigeria
Emeka Joseph Pius, National Centre for Technology Management (NACETEM), Ile-Ife, Osun State, Nigeria
ID 140  FPGA Based Control Unit for a Steam Generation Unit
Dr. Anjum Ali, Professor (Retd.) of Electrical Engineering, Founder and CEO, RDM Associates, Atlanta, Georgia, USA.
Hafiz Usama Hashmat, Department of Technology, Faculty of Engineering and Technology, The University of Lahore, Lahore, 54000, Pakistan.
Abdul Rauf, Department of Electrical Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

ID 089  Supercritical CO2 Mixtures for Increasing Supercritical Power Plants Performance
Robert Valencia-Chapi, Escuela Técnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid
C/ José Gutiérrez Abascal, 2. 28006 Madrid, Spain, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Av. 17 de Julio, 5-21.100105 Ibarra, Ecuador
Luis Coco-Enríquez, Escuela Superior de Ingeniería y Tecnología, Universidad Internacional de la Rioja, Av. de la Paz, 137. 26004 La Rioja, Spain
Javier Muñoz-Antón, Escuela Técnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid
C/ José Gutiérrez Abascal, 2. 28006 Madrid, Spain

ID 118  Using Machine Learning to Assess Solar Energy Grid Disturbances
Lisa B. Bosman, Purdue Polytechnic Institute, Purdue University, West Lafayette, IN 47907, USA
Ebisa Wollega, Department of Engineering, Colorado State University – Pueblo, Pueblo, CO 81001, USA

August 4, 2021 (Wednesday) - Session: 7:00 – 8:45 pm

7:00 – 8:45 pm, WEDNESDAY  Industry Solutions and Industry 4.0 - V  Room 1
Diversity & Inclusion Panel Sponsored by Ford Motor Company

Panel Chair
Dr. Matteo Mario Savino
Professor of Industrial Operations and Industrial Management
University of Sannio
Benevento, Italy

Panel Speaker I
Professor Donald M. Reimer
President, The Small Business Strategy Group
Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University
Southfield, Michigan, USA

Panel Speaker II
Dr. Ximena Córdova Vallejo
Profesora
Colegio de Ciencias e Ingenierías, Politécnico
Universidad San Francisco de Quito
Ecuador

Panel Speaker III
Dr. Rubén Elvira Herranz
Program Manager for Middle East
Airbus Defence & Space
Dubai, UAE

Panel Speaker IV
Daniel Hodges
Product Design Engineer
Brasscraft Manufacturing Company
(a Masco Company)
Novi, Michigan

Panel Speaker V

7:00 – 8:45 pm, WEDNESDAY  Lean Six Sigma Competition  Room 2
Session Chair: Dr. Nicolas Haber, Sapienza - University of Rome

ID 418  Applications of Lean Manufacturing in a manufacturing company in South Africa
Mpho Karen Masemola, Bheki Makhanya and Hannelie Nel, Department of Engineering Management, University of Johannesburg, South Africa
ID 330  Implementation of Lean Six Sigma for the Improvement of Process Cycle Efficiency and Quality. A Case of Manufacturing 
Company
Adedeji Omowole Adeodu, Rendani Maladzhi, Department of Mechanical and Industrial Engineering, University of South Africa, South Africa

Mukondeleli Grace Kanakana-Katumba, Department of Industrial Engineering, Tshwane University Technology, Pretoria, South Africa

ID 366  Develop JMP 16 Based STEAMS and Six Sigma DMAIC Training Curriculum for Data Scientist
Mason Chen, Stanford Online High School, San Jose, CA 95131
Charles Chen, Morrill Learning Center, San Jose, CA 95131

ID 554  The Use of Lean Six Sigma Tools in a South African Multinational Organization
Bheki Makhanya and Hannelie Nel, Department of Engineering Management, University of Johannesburg, Johannesburg, South Africa

7:00 – 8:45 pm, WEDNESDAY  Sustainable in Supply Chain  Room 3
Session Chair: Mahsa Boroushaki, Information System and Operations Management Department, University of Auckland, Auckland, New Zealand

ID 414  A Mathematical Programming Approach Towards a Circular Economy for End-of-Life Vehicles
Shimaa Al-Quradaghia,b, Qipeng Zhengb, Alberto Betancourtc, and Ali Eikamela
a Department of Mechanical and Industrial Engineering, Qatar University, Qatar
b Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, USA
c Department of Chemical Engineering, University of Waterloo, Ontario, Canada

ID 575  Firm’s sustainable Performance: Available Tools and Proposal of a New Module
HADDACH Abdelhay, Abdelmalek Essaâdi University, Faculty of Sciences and Techniques, Tangier, Morocco. Research team: Materials, Environment and Sustainable Development

ID 208  Impacts of optimization in apparel supply chain focusing on ANN and Genetic Algorithm
Shibbir Ahmad and Md. Kamruzzaman, Mechanical Engineering Department, Dhaka University of Engineering Technology, Gazipur, Bangladesh.
M. Iqbal, Industrial and Production Engineering, Shah Jalal University of Science & Technology, Sylhet, Bangladesh.

ID 047  Sustainable fishing by blockchain and space data-based traceability in Baltic Sea region
Ahm Shamsuzzoha, Kendall Rutledge and Heidi Kuusniemi, Digital Economy Platform, School of Technology and Innovations, University of Vaasa, Finland

ID 093  The Effect of a Risk-based Audit Program on Supply Chain Responsible Sourcing
Mahsa Boroushaki, Information System and Operations Management Department, University of Auckland, Auckland, New Zealand
Tava Olsen, Information System and Operations Management Department, University of Auckland, Auckland, New Zealand

ID 631  Supply Chain Management in Airline Catering Service: Characteristics, Challenges and Trends
Dhaarsan Rajaratnam and Funlade Sunmola, School of Physics, Engineering and Computer Science, University of Hertfordshire, Hatfield, UK

ID 328  The Dynamics of Social and Economic Factors Affecting Supplier-Specific Investment on Business Process Outsourcing: A Conceptual Paper
Wulan Permatasari, Amin Wibowo, Nurul Indarti, and Rangga Almahendra, Faculty of Economics and Business, Universitas Gadjah Mada, Yogyakarta, Indonesia

7:00 – 8:45 pm, WEDNESDAY  Manufacturing  Room 4
Session Chair: Md Fashiar Rahman, University of Texas at El Paso, TX 79902, USA

ID 526  An overview on dissimilar metals joining techniques for nitinol shape memory alloy to titanium alloy Ti-6Al-4V
Ateekh Ur Rehman1, Yusuf S Usmani1, N. Kishore Babu2, M.K. Talaric, Hisham Al-khalifa3
1 Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh-11421, Saudi Arabia.
2 Department of Metallurgical and Materials Engineering, National Institute of Technology, Warangal-8 506004, India.
3 Advanced Manufacturing Institute, King Saud University, Riyadh-11421, Saudi Arabia

ID 405  Analysis of delamination in drilling of composite using FEM for aerospace application
Tamiru Hailu Jimma University, Jimma Oromia Ethiopia

ID 541  Determinants of Single Natural Fiber Stiffness Estimation Accuracy and Enhancement Possibilities
Abebayehu Abdela, Ethiopia Institute of Technology-Mekelle, School of Mechanical and Industrial Engineering, Student at KU Leuven, Engineering Technology program, Belgium
Bart Buffel and Frederik Desplenter, Department of Materials Engineering, ProPoLiS research group, KU Leuven Bruges Campus, Bruges, Belgium

ID 564  Dimensional Accuracy Prediction for Shape Memory Polymer Using Artificial Neural Networks
Carlos A. Garcia Rosales, Department of Electrical and Computer Engineering, The University of Texas at El Paso, TX 79902, USA
Md Fashiar Rahman, Honglun Xu, Computational Science Program, The University of Texas at El Paso, TX 79902, USA
Tzu-Liang (Bill) Tseng, Department of Industrial, Manufacturing and Systems Engineering, The University of Texas at El Paso, TX 79902, USA

ID 329  Experimental study of the adhesion of a paint coating on shot-peening surface of an HLE steel - characterization by fractal dimension
**IEOM Rome Conference**  
**PARALLEL SESSIONS - Rome Time**  
**August 2-5, 2021**

Mounira Bourebia, Soumaya Meddah, Zoheir Mentouri, Samira Tili, Amel Oulabbas, Sihem Achouri, Industrial Technologies Research Center. CRTI, P.O. BOX 64, Chéraga-16014, Algeria

Lakhdar Laouar, University Badji Mokhtar Bp 12-2300, Laboratory of Industrial Mechanics, Annaba, Algeria

**ID 300**  
Reducing manufacturing barriers by implementing 6S management system in SA industries.  
John Zvidzayi, Mangosuthu University of Technology, Department of Mechanical Engineering

**ID 075**  
The Effect of Different Types Flexibility and Inventory on the Production Systems  
Pedro Palominos, German Moncada, Luis Quezada, and Astrid Oddershede, Department of Industrial Engineering, University of Santiago of Chile Santiago, Chile

**ID 219**  
Design of a future family car using IDES and SDE as innovative design methodologies  
Marco Neri, Alfredo Liverani, Roberta Coniglio, Alessia Di Re, Monica Montuschi, and Giampiero Donnici, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, Viale Risorgimento 2, 40136 Bologna, Italy

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**August 5, 2021 (Thursday) - Session: 8:00 – 9:45 am**

**8:00 – 9:45 am, THURSDAY**  
**Global Supply Chain and Logistics I**  
**Room 1**

**Session Chair:** Dr. Jay Daniel, University of Derby, UK

8:00 – 8:20 am, Thursday, August 5

Song-Man Wu,  
Industrial and System Engineering Department  
The Hong Kong Polytechnic University  
Hung Hum, Hong Kong

**ID 316**  
A Supply Chain System with Capital Constraints Considering Various Salvage Values  
Song-Man Wu, Felix T.S. Chan and S.H. Chung, Industrial and System Engineering Department, The Hong Kong Polytechnic University, Hung Hum, Hong Kong, China

8:20 – 8:40 am, Thursday, August 5

Dr. Jan Olhager  
Professor, Supply Chain and Operations Strategy  
Lund University  
Lund, Sweden

8:40 – 9:00 am, Thursday, August 5

Dr. Susana Duarte  
Assistant Professor  
Universidade Nova de Lisboa  
Lisbon, Portugal

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<thead>
<tr>
<th>Session Chair</th>
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<th>Authors</th>
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<tbody>
<tr>
<td>I Nyoman Pujawan, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
<td>ID 176 Developing a Methodology for Category Management in Manufacturing companies.</td>
<td>Irina V. Burlakova and Ludmila S. Ruzhanskaya, International Economy and Management Dept., Ural Federal University named after the first President of Russia B.N. Yeltsin, 19 Mira St., Ekaterinburg, 620002, Russia</td>
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<td>ID 245 Optimizing the Surgical Operating Room Scheduling in a Hospital Yehia Ismail*, Youssf Malek*</td>
<td>Nahed Sobhi, Mohamed Grida, Department of Industrial Systems Engineering, October University for Modern Sciences and Arts Giza, Egypt, Department of Industrial Systems Engineering, Zagazig University, Zagazig, Egypt</td>
</tr>
<tr>
<td></td>
<td>ID 651 Reducing manufacturing barriers by introducing a 5S hybrid management system in SA industries.</td>
<td>John Zvidzayi, Mangosuthu University of Technology, Department of Mechanical Engineering, P.O Box 4026, Jacobs, Durban, South Africa</td>
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<td>ID 103 Green Innovation Decisions of a Risk-averse Firm under the Uncertain Reliability</td>
<td>Wei Zhen, Bo Li and Ruidong Zhao</td>
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<td>ID 104 The Factors Affecting Efficiency of Crude Palm Oil in Indonesia Palm Oil Industry</td>
<td>Yuli Eni, Christy Agustina, Metta Merlinna, Risya Bella, Bachtir H. Simamora, Management Program, Management Study Program, BINUS Business School Undergraduate, Program, Bina Nusantara University, Jakarta, Indonesia 11480</td>
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<td>ID 352 The Role of Supply Chain Management in Enhancing Customer Satisfaction in the Banking Industry: A Case Study of Skye Bank Sierra Leone Limited</td>
<td>Michael Komah and I Nyoman Pujawan, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia</td>
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<td>ID 406 An evaluation of Food Safety and Quality Management Systems of the snack manufacturing industry in South Africa</td>
<td>Webster Mthulisi Mncube. Khathutshelo Mushavhanamadi, Department of Quality and Operation Management, University of Johannesburg, South Africa</td>
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<td>ID 692 Perceived Effectiveness of Work from Home (WFH) Employees: A Basis for Enhancing Employee Engagement</td>
<td>Rosemarie C Pilarta, Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Intramuros, 1002, Philippines</td>
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<tr>
<td>Md Abdullah Mia, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh</td>
<td>ID 555 E-hailing development and adoption: The case of Dubai Taxi Corporation in UAE</td>
<td>Yousef M. Al Ali, Public Transportation Agency, Roads and Transport Authority, Dubai, UAE Ahmed M. Alnunu, Dubai Taxi Corporation, Dubai, UAE Amir Shikhli, Imad Alsyouf, Ali Cheaitou, and Zain Tahboub, SEAM research group, University of Sharjah, Sharjah, UAE</td>
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<td>ID 677 Internet of Things Technology Selection for Palm Oil Mill Maintenance</td>
<td>Humaira Syifa Rizal and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
</tr>
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<td>ID 255 Performance of Named Data Networking in Connected Vehicles</td>
<td>Zakaria SABIR and Aouatif AMINE, ILM, ENSA, National School of Applied Sciences, Ibn Tofail University</td>
</tr>
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8:00 – 9:45 am, THURSDAY

**Operations Management**

- **Room 2**
- **Room 3**
ID 367  Process, Benefits and Challenges for Adoption of Block Chain Technologies in Paper Industry and Performance Analysis
Md Abdullah Mia, Nur Md. Alif Ull Islam and Mohammad Rakibul Hasan Chowdhury, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

ID 159  Role of Internet of Things in Healthcare Sector
Pratima Verma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC
Vinayak A Drave, Jindal Global Business School, O.P. Jindal Global University, India
Ateequr Rahman, Office of Dean of Academic Affairs, Indian Institute of Technology, Kanpur, India
Priyanka C. Bhatt, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC
Prof. Sheela R. Sharma, Department of Obstetrics & Gynecology, Rama Medical College, Kanpur, India

ID 205  Sustainability Issues in World Smart Cities: An IoT Perspective
Alok Kumar Sharma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC
Ateequr Rahman, Office of Dean of Academic Affairs, Indian Institute of Technology, Kanpur, India
Jai Kumar Drave, Department of Production Engineering, National Institute of Technology, Tiruchirappalli, India
Sanjeev Kumar, Jindal Global Business School, O.P. Jindal Global University, India

ID 381  Temperature & Mask Scan Entry System For Covid Prevention
Manan Kotai, Mumbai, Maharashtra, India
Kuldeep Choudhary - 05
Aditya Khati - 27
Manan Kotak – 28

8:00 – 9:45 am, THURSDAY  Business Analytics  Room 4
Session Chair: Vinayak A Drave, Jindal Global Business School, O. P. Jindal Global University, India

ID 329  A Comprehensive Integration of RFM Analysis, Cluster Analysis, and Classification for B2B Customer Relationship Management
İsmet Karacan and İncan Erdoğan, AN-EL Anahtar ve Elektrikli Ev Aletleri San. A.S., Pendik, 34896, Turkey
Ufuk Cebeci, Department of Industrial Engineering, Istanbul Technical University, Macka, 34367, Turkey

ID 480  Colombia Life Expectancy and War 1985-2018
Mariluz Osorio Quiceno, Facultad de Ingeniería, Universidad Distrital “Francisco José de Caldas”, Bogotá, Colombia
Wilson Alexander Pinzón Rueda, Facultad de Ingeniería, Universidad Distrital “Francisco José de Caldas”, Bogotá, Colombia
Carlos Andrés Arango Londoño, Departamento de Ingeniería Industrial, Universidad de La Salle, Bogotá, Colombia
Edgar Olmedo Cruz Mican, Administración de Empresas AEMD, Corporación Universitaria Minuto de Dios, Bogotá, Colombia

ID 674  Customer Loyalty Using Customer Lifetime Value (A Case Study of Baby Equipment SMEs)
Lidy Vitasya and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 001  Excellence of lean Execution
Shahryar Sorooshian, University of Gothenburg, Sweden

ID 315  Is there a relation between academic ranking measures and age of a University? A case study from Turkey
Alptekin Dümuşoğlu, Zeynep Diden Unutmaz Dümuşoğlu, Gaziantep University, Department of Industrial Engineering, Gaziantep, Turkey

ID 160  Sustainable Practices in a Circular Economy
Vinayak A Drave, Jindal Global Business School, O. P. Jindal Global University, India
Ateequr Rahman, Office of Dean of Academic Affairs, Indian Institute of Technology, Kanpur, India
Prof. Sheela R. Sharma, Department of Obstetrics & Gynecology, Rama Medical College, Kanpur, India
Sanjeev Kumar, Jindal Global Business School, O. P. Jindal Global University, India
Alok Kumar Sharma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC

8:00 – 9:45 am, THURSDAY  Business Management  Room 5
Session Chair: Abdul Talib Bin Bon, Fakulti Pengurusan Teknologi dan Perniagaan, Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia

ID 465  How can Corporate Performance keeps in Multinational Firm: a Study from Indonesia
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-5811, Indonesia
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-5811, Indonesia
Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia

ID 678  Improvement Banana Warehouse Operation Using Business Process Reengineering
Gidion Cahya Negara and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 427  Investigating the Relationship between Corporate Social Responsibility and Corporate Reputation in MNCs in the Egyptian Context: An Employee Perspective
Salma Elzarka, College of Management and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt
Prof. Dr. Ashraf Labib, College of Management and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt
**ID 466  **Maintaining Brand Equity of Business Strategy in Multinational Firm: Fact from Indonesia  
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
Gidion P. Adirineko, Department of Management Faculty Economics and Business Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

**ID 346  **Playonan-based Business Management to support the development of SMEs in Developing Countries  
Ursulah Diana Fitriani, Victor Da Costa Monteiro, Accounting Study Program, Faculty Economy and Business, Universitas Narotama Surabaya, Indonesia  
Rony Wardhana, Faculty Economy and Business, Universitas Narotama Surabaya, Indonesia, Student of Doctoral Accounting, Universitas Airlangga Surabaya, Indonesia  
Abdul Talib Bin Bon, Fakulti Pengurusan Teknologi dan Perniagaan, Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia

**ID 251  **Role of Design Thinking and Rapid Prototyping Methods in Service and Product Design  
Hamidreza Bahrami and Negin Firooz, Department of Industrial Engineering, Azad University of Tehran, Tehran, Iran

**ID 744  **Analyzing the Effect of Products and Human Resources Towards Customer Loyalty at Bank Aceh Syariah, Bireuen, Indonesia  
Damanhur, Falahuddin, Rani Puspitanigrum, Intan Magfirah, Faculty of Economics and Business, Universitas Malikussaleh, Semarang, Jawa Tengah 50275, Indonesia, Jumadi Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

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**August 5, 2021 (Thursday) - Session: 10:00 – 11:45 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Nomination</th>
<th>Title of Presentation</th>
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<tbody>
<tr>
<td>10:00 – 11:45 am</td>
<td>Dr. Ferry Jie</td>
<td>“Leadership Role for Resilient Manufacturing”</td>
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<tr>
<td>Session Chair:</td>
<td>Dr. Mehran Daulat</td>
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<tr>
<td>Session Co-Chair:</td>
<td>Dr. Mehran Daulat</td>
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<tr>
<td>10:00 – 10:20 am</td>
<td>Ferry Jie, PhD</td>
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<td>Edith Cowan University (ECU)</td>
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<td>Joondalup, WA 6027 Australia</td>
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<tr>
<td>10:20 – 10:40 am</td>
<td>Ts. Dr. Mehran Daulat</td>
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<tr>
<td></td>
<td>Associate Researcher &amp; Professor</td>
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<td>MBA Centre</td>
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<td>Xiamen University, Malaysia Campus</td>
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<td></td>
<td>Director of Asia-Pacific Centre for Operational Excellence and Sustainability (SPECTRAL Ent.)</td>
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<td>Editorial Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)</td>
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<tr>
<td>10:40 – 11:00 am</td>
<td>Ahmed Abbas</td>
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<tr>
<td></td>
<td>Senior Researcher Quality Management &amp; Benchmarking</td>
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<td>Business Performance Improvement Resource (BPIR.com)</td>
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<td>New Zealand</td>
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<td>11:00 – 11:20 am</td>
<td>Dr. Khurram Nawaz</td>
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<td>Senior Advisor, Management Systems</td>
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<td>Emirates Nuclear Energy Corporation</td>
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<td>Abu Dhabi, United Arab Emirates</td>
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<td>Director for Canadian Institute of Organizational Excellence (CIOE) Inc</td>
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<td>Calgary, Canada</td>
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<td></td>
<td>Title of Presentation: “Leadership Role for Resilient Manufacturing”</td>
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<tr>
<td>11:20 – 11:40 am</td>
<td>Dr Pouria Liravi</td>
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<tr>
<td></td>
<td>Senior Lecturer in Operations and Supply Chain Management (Procurement)</td>
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<td>College of Business, Law and Social Sciences</td>
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<td>University of Derby, UK</td>
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</tbody>
</table>
**PARALLEL SESSIONS - Rome Time**

**10:00 – 11:45 am, THURSDAY**  
**Waste**  
**Room 2**

**Session Chair:** Girts Zarins, Riga Technical University, Latvia

**ID 173**  
Investigation for a Sustainable Use of Fossil Coal through the Dynamics of Interaction of Smokeless Solid Fuel with Oxygen  
Yevgen Zbykovsky, Iryna Shvets, Donetsk National Technical University, Pokrovsk, 85300, Ukraine  
Oksana Turchanina, António Castelbranco, CIAUD – Research Centre of Architecture, Urbanism, Design, Lisbon School of Architecture, University of Lisbon, Lisbon, 1349-063, Portugal

**ID 170**  
Optimization of a Capacitated Vehicle Routing Problem for Recyclable Solid Waste Collection  
Gevorg Guloyan and Ridvan Aydin, College of Engineering and Technology, American University of the Middle East, Kuwait

**ID 536**  
Kinetic Modeling, Economic and Environmental Feasibility Study of Mitigation of Flaring Gas in Oil Fields to Produce Methanol  
Azadeh Maroufmashat, Michael Fowler, and Ali Elkamel, Chemical Engineering Department, University of Waterloo, Ontario, Canada

**ID 720**  
Perspective of Circular Economy in Bangladesh: A Comprehensive Review Towards Ship Demolition Industry  
Sohanal Ahasan, Fariha Nawshin Zaman and Toukir Ahmed, Department of Industrial & Production Engineering, Rajshahi University of Engineering & Technology, Rajshahi-6204, Bangladesh

**ID 724**  
Waste Management Value Chain Factor Identification of Household Involvement  
Zarins Girts and Geipele Sanda, Riga Technical University, Riga, Latvia

**10:00 – 11:45 am, THURSDAY**  
**Systems Engineering**  
**Room 3**

**Session Chair:** Ali Gaeeni, Sharif University of Technology, Tehran, Iran

**ID 131**  
Modeling the Housing Price Forecasting System and Providing Buying Advisory Services: An Econometric Approach  
Hadi Mohammadi and Emad Akrami, School of Industrial Engineering, College of Engineering, University of Tehran, North Kargar st., Tehran, Iran

**ID 125**  
Planning and optimizing the master surgery scheduling in hospitals  
Mahdi Hamid University of Tehran Tehran Iran

**ID 130**  
Reverse Logistics Optimization in Multi-Product Supply Chains: A Goal Programming Approach  
Zahra Heydarifar, Amirkabir University of Technology; Mehran Moazeni, Sharif University of Technology

**ID 133**  
Risk Assessment in the Printing and Packaging Industry Using Systematic Approaches to Predicting and Reducing Human Error (SHERPA) and FMEA Using Simulation Method  
Mahdi Hamid University of Tehran Tehran Iran

**ID 504**  
Wind Pressure Distribution on Industrial Building Roof  
Gudeta Konkone, Lecturer, School of Construction Technology Management & Architecture, Dilla University, Dilla, Ethiopia

**ID 135**  
School Bus Routing Problem with Considering Traffic Constraint  
Ali Gaeeni, and Mehran Moazeni, Department of Industrial Engineering, Sharif University of Technology, Azadi Ave., Tehran 145889694, Iran

**10:00 – 11:45 am, THURSDAY**  
**Transportation and Traffic**  
**Room 1**

**Session Chair:** MichaelvThomas, California State University, Los Angeles, United States

**ID 476**  
Road Traffic Accident Hot Spots Situation and Potential Countermeasures Development in Tunisia  
Ouni Fedy, Department of Transportation and Logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Tunisia  
Altig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia  
Harizi Riadh, Department of Business Administration., University of Bisha, Bisha, Saudi Arabia, College of Business, PO. Box 1113, BISHA, 61922, Saudi Arabia

**ID 654**  
Selecting Interchange Scheme for Traffic Intersections, A Combined Dematel and Network Analysis Methods (Case Study: Sanaat Square, Tehran, Iran)  
Mojtaba Taghavizad Kolsaraky, Advisor to Deputy of Transportation, Road Maintenance and Transportation Organization, Tehran, Iran  
Abbas Mahmoudabadi, Ph.D. in Industrial Engineering, Director of IE Department, MehrAsian University, Gilan, Iran

**ID 353**  
Transport Management Practices and Firms’ Performance in Nigeria  
Adebayo Iyabo Toyin and Aworemi Joshua Remi, Department of Transport Management, Ladoke Akintola University of Technology, P.M.B. 4000, Ogbomoso, Oyo State, Nigeria

**ID 629**  
Transportation behaviours and challenges of non-resident students at a South African university  
Mr. Laby A. I., Mr. Shabalala, S., Ms. van der Walt, J., Department of Transport and Supply Chain Management, University of Johannesburg, Randburg Gauteng, South Africa

**ID 206**  
Vehicle Parking Study During the Periode of Covid-19 Pandemic; Case of Pasar Turi Train Station in Surabaya  
Sri Wiwoko Mudjanarko, Atik Wahyuni*, Rizal Bahaswan, Departement of Civil Engineering, Narotama University  
Dadang Supriyatno, Departement of Civil Engineering, Universitas Negeri Surabaya  
Joewono Prasetijo, Department of Transportation Engineering Technology, Universiti Tun Hussein Onn Malaysia, 84600 Pagoh, Johor, Malaysia  
Firdaus Pratama Wiwoho, Departement of Environmental Engineering, Institut Teknologi Sepuluh Nopember, Surabaya,60117, INDONESIA

**ID 767**  
Metro Red Line/Purple Line Fire Protection Systems and Equipment  
Michael J. Thomas, M.A, California State University, Los Angeles, Los Angeles, CA 90032, USA
Women in Industry and Academia (WIIA) Panel

Panel Chair
Professor Linda Zhang
Full Professor of Operations Management
Department of Management
IESEG School of Management
Paris, France

Panel Speaker I
Dr. Rubee Singh
Assistant Professor in HR
Institute of Business Management
GLA University
New Delhi, Delhi, India

Panel Speaker II
Dr. Sara Shafiee
Researcher/Assistant Professor
Department of Mechanical Engineering
Engineering Design and Product Development
Technical University of Denmark
Lyngby, Denmark

Panel Speaker III
Dr. Au Yong Hui Nee
Dean of Faculty of Business and Finance
Associate Professor
Universiti Tunku Abdul Rahman (UTAR)
Kampar, Perak, Malaysia

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

Panel Speaker V
Dr. Elizabeth Cudney
Associate Professor of Business Data Analytics
John E. Simon School of Business
Maryville University
St Louis, Missouri, United States
1:00 – 1:20 pm, Thursday, August 5

Mahbuboor Etmamder
Operations at Messer Americas
Toronto, Ontario, Canada

1:20 – 1:40 pm

Dr. Teresa Verduzco-Garza
Researcher and Professor
Industrial and systems Engineering Department
Engineering School
University of Monterrey
Mexico

Topic: Synergy and Collaboration in Supply Chains

12:00 – 1:45 pm, THURSDAY  Business Management  Room 2

Session Chair: Carlos Andrés Arango Londoño, Departamento de Ingeniería Industrial, Universidad de La Salle, Bogotá, Colombia

ID 529  Challenges of Development and Operation of Port in 21st Century
Khandakar Akhter Hossain, MIST Dhaka Bangladesh
Bangladesh

ID 172  Does Payout Policy Affect Firms’ Performance? Evidence from Textile Industry in India
Vikas Sangwan, Accounting and Finance, Jindal Global Business School, O.P. Jindal Global University, Sonipat, Haryana 131001, INDIA, Shivam Kushwaha, Department of Industrial and Management Engineering, Indian Institute of Technology Kanpur, Kanpur, UP 208016, INDIA

ID 314  Effect of Covid-19 pandemic on absenteeism rates in carpet manufacturing: A case study from Turkey
Zeynep Didem Unutmaz Durmuşoğlu, Alptekin Durmuşoğlu
Gaziantep University, Department of Industrial Engineering, Gaziantep, Turkey

ID 285  Effectiveness And Accountability of Audit Quality Assurance on the Improvement Of Lecturer Performance
Eni Wuryani, Lecturer of Faculty of Economics, University State of Surabaya Jl. Ketintang, Surabaya, Indonesia

ID 601  Evaluating Factors of Profitability for Improvement at PT. Padumacom Karya Jaya
Anna Gracia and Bachtiar H. Simamora, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta Barat, 11530, Indonesia
Lily Leonita, Management Department, BINUS Online Learning, Bina Nusantara University, Jakarta Barat, 11480, Indonesia

ID 618  Factor Affecting Credit Access of Cotton Growers in Rahim Yar khan
Abdul Wadoo1, Maimunah Ali2 and Muhammad Imran4, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia 86400, Parit Raja Johor, Malaysia
Amjad Masood3, Department of Business Studies, Bahria Business School, Islamabad Campus, Bahria University, Islamabad, Pakistan

ID 481  Financial Services Request Evolution
Carlos Andrés Arango Londoño, Departamento de Ingeniería Industrial, Universidad de La Salle, Bogotá, Colombia
Wilson Alexander Pinzón Rueda, Facultad Tecnológica, Universidad Distrital “Francisco José de Caldas,” Bogotá D.C, Colombia
Carlos Alberto León Gil, Industrial Engineer, La Salle University, Bogotá D.C, Colombia
Diego Karachas Rodriguez, Facultad de Ciencias Empresariales, Corporacion Universitaria Minuto de Dios, Bogotá, Colombia
Jose Martin Diaz, Facultad de Ciencias Empresariales, Corporacion Universitaria Minuto de Dios, Bogotá, Colombia
Fernando Augusto Poveda Aguja, Maestría en Educación, Corporación Universitaria Minuto de Dios UNIMINUTO

12:00 – 1:45 pm, THURSDAY  Logistics  Room 3

Session Chair: Mahinthorn Pothiwan, Rajabhat Mahasarakham University, Thailand

ID 073  Risks of Third-Party Logistics in Diamond Industries
Akhilesh Barve, Associate Professor, Maulana Azad National Institute of Technology Bhopal, MP, India -462003
Saket Shanker, UG Scholar, Maulana Azad National Institute of Technology Bhopal, MP, India -462003

ID 074  Risks Related with Third Party Logistics in Global Food Supply Chain
Akhilesh Barve, Associate Professor, Maulana Azad National Institute of Technology Bhopal, MP, India -462003
Hritika Sharma, UG Scholar, Maulana Azad National Institute of Technology Bhopal, MP, India -462003
Saket Shanker, UG Scholar, Maulana Azad National Institute of Technology Bhopal, MP, India -462003

ID 296  The Analysis of main KPIs on Agile Logistics Engineering and Management (ALEM) by using of Interpretive Structural Modeling (ISM) (Case Study: Iran Khodro Company, Tehran, Iran)
Javad Khamsabadi, Department of Industrial Management, Islamic Azad University, Tehran, Iran, Founder & CEO of World Logistics Engineering Institute, Dr. Mohammad Rouhina, Director of Systems Management, IKCO, Tehran, Iran

ID 496  A New Energy Efficient Mechanism to Enhance MPR Selection in OLSR: EEM-OLSR

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Session Chair: Christoph Szedlak, University of Applied Science Koblenz, Germany

12:00 – 1:45 pm, THURSDAY Modeling and Simulation Room 5

ID 632 Concentrated Phosphate Slurry Flow Simulations Using OpenFoam
Souhail Maazoui, Equipe Analyse des systèmes hydrauliques (EASH), Ecole Mohammadia d'Ingénieurs, Mohammed V University of Rabat, Morocco.
Laboratoire Analyse, Géométrie et Applications (LAGA), Université Sorbonne Paris Nord, Villeurbanne, France
Modeling Simulation & Data Analysis (MSDA), Mohammed VI Polytechnic University Benguerir, Morocco
Imad Kissami, Modeling Simulation & Data Analysis (MSDA), Mohammed VI Polytechnic University Benguerir, Morocco
Faysal Benkhaldoun, Laboratoire Analyse, Géométrie et Applications (LAGA), Université Sorbonne Paris Nord, Villeurbanne, France
Abderrahim Maazouz, IMP, Université de Lyon, INSU Lyon, Ingénierie des Matériaux Polymères, Villeurbanne, France
Driss Ouazzar, Equipe Analyse des systèmes hydrauliques (EASH), Ecole Mohammadia d’Ingénieurs, Mohammed V University of Rabat, Morocco

ID 563 Digitizing Trade Finance Using Blockchain Technology Illustration of Letter of Credit Process
Munaf Asad Khalil, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar
Laoucine Kerbache, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, and HEC Paris in Qatar, Doha, Qatar
Adel El Omri, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

ID 294 Hybrid Machine Learning/Simulation Approaches for Logistics Systems Optimization
Mario Chauca, Professional School of Mechanic and Electric Engineering, National Technological University of South America, 44000, Lima, Peru
Gustavo Cáceres, Mechanical Engineering Faculty, Faculty of Engineering, San Luis Gonzaga University, 23450, Lima, Peru
José Donayre, Mechanical and Electric Engineering, College of Science and Technology, Universidad San Marcos, 23450, Lima, Peru
Luis Magallanes, Mechanical and Electric Engineering, College of Science and Technology, Universidad San Marcos, 23450, Lima, Peru
Javier Gutiérrez, Mechanical and Electric Engineering, College of Science and Technology, Universidad San Marcos, 23450, Lima, Peru
Justo Cuba, Mechanical and Electric Engineering, College of Science and Technology, Universidad San Marcos, 23450, Lima, Peru

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Session Chair: Christoph Szedlak, University of Applied Science Koblenz, Germany

12:00 – 1:45 pm, THURSDAY Entrepreneurship and Innovation Room 4

ID 712 Does Social Media Moderates the Relationship of Reinventing Potential and Financial Independence toward Entrepreneurial Character of the Millennial Generation in Marketing Era 4.07
Adnan and Aiyub Yahya, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia

ID 739 Predicting the Entrepreneurial Intension of Undergraduate Students with Artificial Neural Networks
Carlos Hernández, Instituto de Ingeniería Industrial y Sistemas, Universidad Austral de Chile, Valdivia, Chile

ID 728 Disruptive innovation in learning methodologies in undergraduate students based on the visibility of scientific production in SCOPUS and Web of Science
Mario Chauca, Mechanical and Electric Engineering, National Technological University of South America, 44000, Lima, Peru
Perak Samosir, Mechanical Engineering Department, Institut Teknologi Indonesia, Tangerang Selatan, Indonesia
Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta 13630, Indonesia
John Tampi Purba, Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Gidion P. Adirineko, Department of Management Faculty of Economics and Business, Universitas Kristen Krida Wacana, Jakarta, Indonesia

ID 256 Barriers to Innovation among Micro and Small Enterprises: Evidence from Italian Agricultural Machinery Industry
Lucia Vigoroso, Giorgia Bagaglino and Eugenio Cavallio, Institute of Sciences and Technologies for Sustainable Energy and Mobility (STEMS), National Research Council of Italy (CNR), Strada delle Cacce, 73 - 10135 Torino, Federica Caffaro, Department of Education, Rome Tre University, Via del Castro Pretorio, 20 – 0018, Rome, Italy

ID 640 Performance Evaluation of an IoT Based Fetal Heart Monitoring Device
1,2 E.O. Ige, 1A.O Adetunla, 1J.I Adewolu 1, & A.O.M Adeeoye1
1Department of Mechanical & Mechatronics Engineering, Afe Babalola University, Ado, Nigeria
2Department of Biomedical Engineering, Afe Babalola University, Ado Nigeria

ID 698 Designing a Customer-focused Supply Chain Strategy: A Case of Thailand’s National Postal Company
Maichin Pothwain, Faculty of Agricultural Technology, Rajabhat Mahasarakham University, Mueang Maha Sarakham, 44000, Thailand, Xue-Ming Yuan, Singapore Institute of Manufacturing Technology, Agency for Science, Technology, and Research (A*STAR), 2 Fusionopolis Way, Innovis #08-04, Singapore, 138634

ID 604 Readiness Model Development in the Adoption of Internet of Things (IoT) among Philippine Manufacturing SMEs Using Force Field Analysis Approach and Structural Equation Modelling
Patricia Nicole Ramos, Maryl Louise B. Enteria, & Marvin I. Norona, School of Industrial Engineering & Service Engineering and Management, Mapúa University, 658 Muralla St, Intramuros, Manila, 1002, Metro Manila

ID 741 Does Social Media Moderates the Relationship of Reinventing Potential and Financial Independence toward Entrepreneurial Character of the Millennial Generation in Marketing Era 4.0?
Adnan and Aiyub Yahya, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia

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Gidion P. Adirineko, Department of Management Faculty of Economics and Business, Universitas Kristen Krida Wacana, Jakarta, Indonesia

ID 599 Modal Analysis for Solid and Hollow Power Ultrasonic Horn Using Fem
Ziad Shakeeb Al Sarraf and Majied Medhat Saeed, Department of Mechanical Engineering, Faculty of Engineering, University of Mosul, Mosul, Iraq

ID 696 Analysis of Factors Influencing the Perceived Effectiveness of Disaster Relief Operations Using Structural Equation Modeling
Lyssa Catherine C. Hipolito and Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Intramuros, 1002, Philippines

ID 746 Developing Conceptual Leadership Model for Project Management in UAE Using Structural Equation Modelling Analysis
Mohamed Ebrahim Helal Ebrahim AL Zaabi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia, Prof. Madya Dr. Azlina Binti md Yassin, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia

ID 725 Simulation and Game-based Lean Training
Christoph Szedlak, Florian Baarsch, Bert Leyendecker, University of Applied Sciences Koblenz, Faculty of Operations Management, Konrad-Zuse-Str. 1, 56075 Koblenz, Germany

August 5, 2021 (Thursday): 2:00 – 5:00 pm

KEYNOTES - Room 1

2:00 – 2:20 pm Conference Chairs’ Remarks

2:20 – 3:00 pm Keynote IX:

**Dr. Fatma H. Ashour**
Director of the Center for Environmental Hazard Mitigation and Environmental Research and Studies
Cairo University, Egypt

3:00 – 3:40 pm Keynote X:

**Franco Megali**
VP and CEO Italy, Israel and Greece
Siemens Digital Industries Software

3:40 – 4:20 pm Keynote XI:

**Giovanni Esposito**
Director of Innovation
Argo Tractors, Fabbrico RE, Italy

*Tractor Technology: Agriculture 4.0 towards more sustainable, safe and automated vehicles*

4:20 – 5:00 pm Keynote XII:

**Dr. Saurin Tarcisio Abreu**
Associate Professor
Industrial Engineering Department
Universidade Federal do Rio Grande do Sul
August 5, 2021 (Thursday) - Session: 5:00 – 7:00 pm

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First GCC Conference in Riyadh, Saudi Arabia, November 26-28, 2019

4th North American IEOM Conference, October 23-25, 2019
Third European IEOM Conference in Pilsen, Czech Republic, July 23-26, 2019

First Central American Symposium on Industry 4.0, Logistics 4.0 and Manufacturing 4.0, San Jose, Costa Rica, June 12-13, 2019
Second IEOM Fellows Induction at the IEOM Bangkok Conference on March 6, 2019
IEOM Student Chapters around World

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<td>120. Tshwane University of Technology (TUT)</td>
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<td>134. Lawrence Technological University, Michigan, USA</td>
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<td>Venezuela</td>
<td>135. Catholic University Andrés Bello (UCAB), Caracas</td>
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# IEOM Executive Committee

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<thead>
<tr>
<th>Director of Membership and Chapter</th>
<th>Director of Program</th>
<th>Director of Publication</th>
<th>Executive Director</th>
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<tbody>
<tr>
<td><strong>Professor Donald M. Reimer</strong></td>
<td><strong>Dr. Mohammad Khadem</strong></td>
<td><strong>Dr. Mohammad Anwar Rahman</strong></td>
<td><strong>Dr. Ahad Ali</strong></td>
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<td>President, Small Business Strategy Group, Detroit, Michigan, USA</td>
<td>Associate Professor Department of Mechanical and Industrial Engineering Sultan Qaboos University Muscat, Oman</td>
<td>Associate Professor Manufacturing and Construction Management Central Connecticut State University New Britain, CT, USA</td>
<td>Associate Professor and Director of IE Program, A. Leon Linton Dept. of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, Michigan, USA</td>
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<th>Competition and Workshop Director</th>
<th>Associate Program Director</th>
<th>Associate Program Director</th>
<th>Associate Director of Chapter Development</th>
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<tr>
<td><strong>Dr. Saso Krstovski</strong></td>
<td><strong>Dr. Annamalai Pandian</strong></td>
<td><strong>Dr. Hayder Zghair</strong></td>
<td><strong>Dr. Ir. Lina Gozali</strong></td>
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<tr>
<td>Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant Ford Motor Company, Michigan, USA</td>
<td>Associate Professor and Director, Bachelor of Science in Engineering Technology Management Department of Mechanical Engineering Saginaw Valley State University Michigan, USA</td>
<td>Assistant Teaching Professor of Industrial and Manufacturing Engineering, Pennsylvanian State University, The college: Penn State Berk, PA, USA</td>
<td>Lecturer Industrial Engineering Department Tarumanagara University (UNTAR) Jakarta, Indonesia</td>
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<th>Operations Manager</th>
<th>Director of Web Development</th>
<th>Director of Certification</th>
<th>Assistant Program Director</th>
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<td><strong>Dr. Taufiq Islam</strong></td>
<td><strong>Suvo Sudip</strong></td>
<td><strong>Dr. Joseph M. Ogundu</strong></td>
<td><strong>Ms. Rocksana Ahmed</strong></td>
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<tr>
<td>IEOM Society International Southfield, Michigan, USA</td>
<td>Software Engineer II Jervis B. Webb Company Detroit, Michigan</td>
<td>President/CEO Emerald Global Consulting Inc. West Bloomfield, Michigan</td>
<td>Senior - BS in Mechanical and Manufacturing Engineering Technology, Lawrence Technological University, Southfield, Michigan, USA</td>
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</table>
IEOM Global Council

Professor Charles Mbohwa
Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Mt Pleasant, Harare, Zimbabwe

Professor Abdul Talib Bon, Ph.D.
Professor of Technology Management, Department of Production and Operations Management, Universiti Tun Hussein Onn Malaysia

Prof. Vitor Mendes Caldana
Federal Institute of Sao Paulo (IFSP)
– Sorocaba Campus
Sorocaba, Sao Paulo, Brazil

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

Prof. Jose Arturo Garza-Reyes, Ph.D.
Professor of Operations Management
Head of the Centre for Supply Chain Improvement
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King Fahd University of Petroleum and Minerals
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North Carolina A&T State University
Greensboro, North Carolina, USA

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School of Science & Engineering
Al Akhawayn University
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Emeritus Professor
Department of Industrial and Manufacturing Engineering
Wichita State University
Kansas, USA

Dr. Abdur Rahim
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University of New Brunswick
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Professor, Industrial and Systems Engineering
Texas A&M University (College Station)
USA

Professor Bernardo Villarreal, Ph.D.
Professor, Department of Engineering
Universidad de Monterrey
San Pedro Garza Garcia, NL Mexico
Upcoming Events

1st Indian International Conference on Industrial Engineering and Operations Management
August 16-18, 2021, Bangalore, India
Host: Amrita University, Bangalore
http://ieomsociety.org/india2021

2nd Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 14-16, 2021, Surakarta, Indonesia
Host: Sebelas Maret University (UNS)
http://ieomsociety.org/indonesia2021/

6th North American Conference on Industrial Engineering & Operations Management
Monterrey, Mexico, November 3-5, 2021
Venue: CINTERMEX-Monterrey Convention Center
www.ieomsociety.org/monterrey2020/

12th Annual IEOM Conference
Istanbul, Turkey, March 8-10, 2022
Host & Venue: Kadir Has University in collaboration with Sabanci University
Conference Website: www.ieomsociety.org/istanbul2022/

5th European IEOM Conference (Onsite)
Rome, Italy, July 26-28, 2022
Host and Venue: The Faculty of Civil and Industrial Engineering of Sapienza – University of Rome

Industrial Engineering and Operations Management Society International
IEOM Society International
21415 Civic Center Dr., Suite 217, Southfield, Michigan 48076, USA
Phone: 1-248-450-5660, www.ieomsociety.org, Email: info@ieomsociety.org