

7th North American International Conference on Industrial Engineering and Operations Management

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June 12-14, 2022

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IEOM Society

"Achieving and Sustaining Operational Excellence"

www.ieomsociety.org

Industrial Engineering and Operations Management Society International

IEOM Society International, 21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA

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

Welcome to the 7th North American Conference on Industrial Engineering and Operations Management in Orlando

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 7th North American **International Conference on Industrial Engineering and Operations Management**, June 11-14, 2022, hosted by Florida Polytechnic University. The venue is Holiday Inn & Suites Across from Universal Orlando. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 600 papers/abstracts submitted from 40 countries. After a thorough peer-review process, more than 450 have been accepted for presentation and publication. The program includes many cutting-edge topics in industrial engineering and operations management.

This conference will address many of the issues concerning the continuous improvement of quality and service. The IEOM Society is delighted to have the following keynote speakers at their 7th North American Conference:

1. Dr. Randy Avent, President, Florida Polytechnic University, Florida, USA
2. Dr. Kay M. Stanney, CEO and Founder, Design Interactive, Inc. and Member, National Academy of Engineering (NAE), Orlando, Florida, USA
3. Professor Alex Frino, Deputy Vice-Chancellor (Global Strategy), University of Wollongong, Wollongong, NSW, Australia
4. Ms. Jessica Ascough, Chief Software Architect, AI Solutions Architect, Data Scientist, L3Harris Technologies, Florida, USA
5. Dr. Regina Relva Romano, Professor and Head of Smart Cities at Facens, Advisor to Brazil's Ministry of Science, Technology, Innovation, and Communication, Brazil
6. H.D. Polumbo Jr., Maj Gen USAF (retired), Founding Partner and Senior Consultant, Two Blue Aces LLC, Winter Haven, Florida, USA
7. Dr. Duane Davis, Chief Physician Executive AdventHealth Institutes, Orlando, Florida, USA
8. Ms. Donna Slyster, Senior Vice President and CIO, Saddle Creek Logistics Services, Florida, United States
9. Dr. Mary Vollaro, Professor and Chair, Department of Mechanical Engineering and Environmental Engineering, Florida Polytechnic University, Lakeland, FL USA
10. Dr. Mansoor Mollaghasemi, Associate Professor, Industrial Engineering & Management Systems Department, University of Central Florida, Orlando, Florida, USA
11. Dr. Ahmed Kamel, Senior Key Expert, Additive Manufacturing and Innovation, Siemens Energy, Orlando, Florida, United States
12. Dr. Timothy Kotnour, Lockheed Martin St. Laurent Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

At this conference, the IEOM Society will hold its 30th Global Engineering Education session. It will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 29th IEOM Industry Solutions will showcase will also be held and feature major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 9th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. Eight-panel sessions have been planned: Industry 4.0, Industry Solutions, Global Engineering Education, Supply Chain, Women in Industry and Academia, Presidential Panel on the Future of IEOM Discipline, and Diversity & Inclusion sponsored by Ford Motor Company.

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

Our conference host, Florida Polytechnic University, would like to extend a warm welcome to all participants. The IEOM Society Conference Organizing and Planning Committee hopes you enjoy visiting Orlando.

Our very best wishes to all of you for a successful and memorable event.



Dr. Shahram Taj
Chair and Professor,
Department of Data Science
& Business Analytics, Florida
Polytechnic University, USA



Dr. Ahmad Elshennawy
Professor, Department of
Industrial Engineering and
Management Systems,
University of Central Florida,
Orlando, FL, USA



Dr. Ahad Ali
Associate Professor and
Director of Industrial Eng.
Lawrence Tech Univ. MI, USA
Executive Director, IEOM
Society



Dr. Reinaldo Sanchez-Arias, Assistant Chair
Department of Data Science
and Business Analytics,
Florida Polytechnic
University, Florida, USA



Dr. Doga Demirel
Assistant Chair of the
Computer Science
Department at Florida
Polytechnic University,
Florida, USA

Conference Overall Program

Day 1 – June 11 (Saturday)

Student Competitions (Virtual) + Parallel Sessions

Day 2 – June 12 (Sunday)

8:00 – 9:30 am – Plenary I, Global Engineering Education and Parallel Sessions

9:30 – 10:00 am – Networking and Coffee Break

10:00 – 10:20 am – Welcome and Opening

10:20 – 11:00 am – Keynote Speaker I: Dr. Randy Avent, President, Florida Polytechnic University, Florida, USA

11:00 – 11:40 am – Keynote Speaker II: Dr. Kay M. Stanney, CEO and Founder, Design Interactive, Inc. and Member, National Academy of Engineering (NAE), Orlando, Florida, USA

11:40 am – 12:20 pm – Keynote Speaker III: Professor Alex Frino, Deputy Vice-Chancellor (Global Strategy), University of Wollongong, Wollongong, NSW, Australia

12:20 – 1:00 pm – Keynote Speaker IV: Ms. Jessica Ascough, Chief Software Architect, AI Solutions Architect, Data Scientist, L3Harris Technologies, Florida, USA

1:00 – 2:00 pm Networking Lunch (Provided)

2:00 – 3:30 pm – Panel I, Global Engineering Education and Technical Parallel Sessions

3:30 – 4:00 pm – Networking and Coffee Break

4:00 – 6:00 pm – Panel II – Presidential Panel on the Future of IEOM Discipline

Day 3 – June 13 (Monday)

8:00 – 9:30 am – Industry Solutions and Technical Parallel Sessions

9:30 – 10:00 am – Networking and Coffee Break

10:00 – 10:20 am – Conference Chair Remarks

10:20 -11:00 am – Keynote Speaker V: Dr. Regiane Relva Romano, Professor and Head of Smart Cities at Facens, Advisor to Brazil's Ministry of Science, Technology, Innovation and Communication, Brazil

11:00 – 11:40 am – Keynote Speaker VI: H.D. Polumbo Jr., Maj Gen USAF (retired), Founding Partner and Senior Consultant, Two Blue Aces LLC, Winter Haven, Florida, USA

11:40 am – 12:20 pm – Keynote Speaker VII: Dr. Duane Davis, Chief Physician Executive AdventHealth Institutes, Orlando, Florida, USA

12:20 – 1:00 pm – Keynote Speaker VIII: Ms. Donna Slyster, Senior Vice President and CIO, Saddle Creek Logistics Services, Florida, USA

1:00 – 2:00 pm – Networking Lunch (Provided)

2:00 – 3:30 pm – Panel III, Industry Solutions and Technical Parallel Sessions

3:30 – 4:00 Networking and Coffee Break

4:00 – 6:00 pm – Panel IV, Industry Solutions and Technical Parallel Sessions

Day 4 – June 14 (Tuesday)

8:00 – 9:30 am – Global Supply Chain & Logistics and Parallel Sessions

9:30 – 10:00 am – Networking and Coffee Break

10:00 – 10:20 am – Conference Industry Chair Remarks

10:20 -11:00 am – Keynote Speaker IX: Dr. Mary Vollaro, Professor and Chair, Department of Mechanical Engineering and Environmental Engineering, Florida Polytechnic University, Lakeland, FL USA

11:00 – 11:40 am – Keynote Speaker X: Dr. Mansoor Mollaghasemi, Associate Professor, Industrial Engineering & Management Systems Department, University of Central Florida, Orlando, Florida, USA

11:40 am – 12:20 pm – Keynote Speaker XI: Dr. Ahmed Kamel, Senior Key Expert, Additive Manufacturing and Innovation, Siemens Energy, Orlando, Florida, United States

12:20 – 1:00 pm – Keynote Speaker XII: Dr. Timothy Kotnour, Lockheed Martin St. Laurent Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

1:00 – 2:00 pm – Networking Lunch (Provided)

2:00 – 3:30 pm – Panel V, Global Supply Chain & Logistics and Parallel Sessions

3:30 – 4:00 pm – Networking and Coffee Break

4:00 – 6:00 pm – Panel VI, Global Supply Chain & Logistics and Parallel Sessions

7:00 – 10:00 pm – Conference Awards Dinner (Student registraton does not include dinner, student can buy dinner ticket)

Keynote Speakers – Ballroom (Room 1)

Conference Welcome and Opening: Sunday, June 12, 2022, 10:00 – 10:20 am

Opening Keynote I: Sunday, June 12, 2022, 10:20 – 11:00 am



Dr. Randy Avent
President
Florida Polytechnic University
Florida, USA

Dr. Randy K. Avent is founding president of Florida Polytechnic University, the state's only public university dedicated 100% to STEM. Named the University's inaugural president in 2014, Avent is responsible for its development and operation, and is committed to strategically advancing Florida Poly as a research-and-jobs institution, an agent for growth, and a beacon for the economy. His career exemplifies the qualities of innovation, leadership, and entrepreneurship the University seeks to instill in students. An accomplished academician, senior administrator, and research scientist, Avent has an extensive background teaching and directing research at higher-education institutions dedicated to science, technology, engineering, and mathematics (STEM).

Keynote II: Sunday, June 12, 2022, 11:00 – 11:40 am



Kay M. Stanney, Ph.D.
CEO and Founder, Design Interactive, Inc.
Member, National Academy of Engineering (NAE)
Orlando, Florida, USA

Dr. Kay M. Stanney is CEO and Founder of Design Interactive (DI), Inc., a woman-owned, small business focused on human-systems integration. She is recognized as a leader in eXtended Reality (XR, Virtual Reality, Augmented Reality, Mixed Reality) systems, especially as they relate to training, human performance, and cybersickness. In 2019, she was inducted into the National Academy of Engineering (NAE) for her contributions to human factors engineering through virtual reality technology and strategic leadership. Her research has influenced the design of current generation XR headsets, Universal Studios and Disney immersive experiences, Chevron immersive environments, Procter & Gamble training solutions, as well as numerous military XR systems. Stanney has been a pioneer in formalizing XR R&D by serving as editor of the Handbook of Virtual Environments: Design, Implementation, and Applications (1st edition, 2002, LEA; 2nd edition, 2014, CRC Press), cofounding/ co-chairing the 1st International Conference on Virtual Reality, and co-founding the Virtual Environments Technical Group (VETG) within the Human Factors and Ergonomics Society. In recognition of these efforts, Dr. Stanney received the 2006 IEEE Virtual Reality Technical Achievement Award from the IEEE Computer Society, an award designed to honor individuals for their seminal technical achievement in virtual and augmented reality.

Keynote III: Sunday, June 12, 2022, 11:40 am – 12:20 pm



Professor Alex Frino
Deputy Vice-Chancellor (Global Strategy)
University of Wollongong
Wollongong, NSW, Australia

Professor Alex Frino is a distinguished financial economist who fosters the interaction of business with academe. He is an alumnus of UOW and Cambridge University, and a former Fulbright Scholar. He is one of the best published financial economists in the world with over 100 papers in leading scholarly journals. He has won over \$10 million in competitive research funding and is frequently cited in the global press. Professor Frino was previously Chief Executive Officer of the Capital Markets Cooperative Research Centre Ltd and has held visiting academic positions at leading Universities in Italy, New Zealand, the UK and the United States. He has also held positions with leading financial market organisations, including the Sydney Futures Exchange, Credit Suisse and the Commodity Futures Trading Commission in the USA. He is regularly called upon to act as an independent expert witness in major Australian court cases and has acted as a consultant to many large Australian listed companies.

Keynote IV: Sunday, June 12, 2022, 12:20 – 1:00 pm



Ms. Jessica Ascough
Chief Software Architect, AI Solutions Architect, Data Scientist
L3Harris Technologies
Florida, USA

Jessica Ascough is a L3Harris Technologies Scientist. Over the past twenty-eight years Jessica has served as a Chief Software Engineer, Chief Software Architect, Principal Investigator, Solutions Architect, and Data Scientist, identifying and developing software, system, security, mission critical network, energy, predictive analytics, algorithmic processing chain, and artificial intelligence solutions and services for proprietary and commercial programs. Jessica has five U.S. patents for Seismic Analysis and one patent pending for Patterns-of-Life/Patterns-of-Activity Normalcy Models. Jessica's L3Harris awards include "Trusted Advisor & Industry Thought Leader", "Innovation", "Rainmaker", "Beyond the Call of Duty", "Outstanding Leadership", "Teamwork", "Golden Quill", and "Best Conference Paper". Jessica has actively participated in, and presented at, organizations and conferences such as the North American SynchroPhasor Initiative (NASPI).

Jessica was the 2010 Co-Chair of the Cybersecurity Working Group for the international Network Centric Operations Industry Consortium (NCOIC). Currently, Jessica is performing Chief Systems Engineer duties for an analytics hybrid cloud App Store Marketplace. Recently, Jessica architected an unsupervised real-time dissimilar phenomenologies generalized upstream fusion framework, that is mission and data independent, to generate generic normalcy models.

Previously, Jessica worked ten years with Florida Power Corporation, now Duke Energy, and was the first female Journeyman Lineman, constructing, maintaining, and troubleshooting electrical power distribution and transmission lines. Jessica holds a Bachelor's of Science in Computer Science (BSCS) from USF, a Master's of Science in Engineering Management (MSEM) from UCF, and a Master's of Science in Predictive Analytics (MSPA) from Northwestern University.

Monday, June 13, 2022

Conference Chair Remarks: Monday, June 13, 2022, 10:00 – 10:40 am

Keynote V: Monday, June 13, 2022, 10:20 – 11:00 am



Dr. Regiane Relva Romano

Professor and Head of Smart Cities at Facens

Advisor to Brazil's Ministry of Science, Technology, Innovation and Communication, Brazil

Has over 30 years of international experience working in technology and innovation. Former as Special Adviser to the Ministry of Science, Technology and Innovation in Brazil. Head of Research and General Coordinator at Smart Campus FACENS, a prototype of a Smart City inside the College, that received the "Top Educational/ABMES" and the "Innovation GS1" awards in 2016; "Smart City UK-London" in 2017; "Best IoT Implementation Europe IdTechEx"; "Top of Academy/RFIDBR/2018" and "InovaCidade" at Smart City Business America 2019. Also work as CEO at VIP-SYSTEMS Informática. Writer. Professor at FGV, FIA, ESALQ/USP, FDC, EINSTEIN and FACENS. International speaker. Consultant of innovation and technologies applied to businesses, retail and Smart Cities. As a researcher in the business and emerging technologies, she has lectured in China, Dubai, Germany, Colombia,

Poland, The Netherlands, Uruguay, Canada, Spain, Perú, Portugal, United States, and others. She developed the First Smart Store in Latin America, in 2011, and is widely recognized as an expert in topics related to Smart and Sustainable Cities, retail, RFID and technology. She earned a Ph.D. in a concentration in Information Technology Management, at FGV and a Master's degree in Informatics Management of Information Systems from PUC-CAMPINAS. She completed some studies in the improvement of international Retailing at the University of Ohio, in RFID at the University of Arkansas, in Business at Columbia University and in Smart Cities at Lleida University.

Keynote VI: Monday, June 13, 2022, 11:00 – 11:40 am



H.D. Pumbo Jr.

Maj Gen USAF (retired)

Founding Partner and Senior Consultant

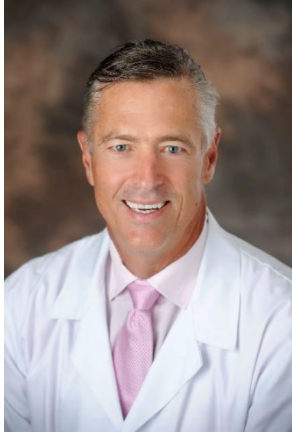
Two Blue Aces LLC, Winter Haven, Florida, USA

Major General H.D. "Jake" Pumbo (ret) is a founding partner and senior consultant for Two Blue Aces, LLC, a leadership firm that specializes in strategic reviews, business plan development, leadership training and mentoring. His primary focus is in the defense and aerospace sectors, with an emphasis on leadership and business networking. In 2015, after 34 years of service, Jake retired from the Air Force as the commander of the Ninth Air Force in South Carolina, comprising eight active-duty wings in the southeastern United States with more than 450 aircraft and over 29,000 active-duty and civilian personnel.

He entered active duty as a graduate of the U.S. Air Force Academy in 1981 and commanded at the squadron, group, and three times at the wing level. He served in strategic planning positions in Europe as the director of strategy and plans at U.S. Africa Command and in the Pentagon as the assistant deputy director for Global Operations on the Joint Staff. General Pumbo also served as a task force commander in Afghanistan in 2012. He attended the Federal Executive Institute and was a Senior Fellow at Georgetown University's Institute for the Study of Diplomacy. A decorated command pilot, Jake logged over three thousand flying hours in all models of the F-16 and holds the distinction as the first and only U.S. Air Force general officer to fly the U-2S in combat, completing twenty-one missions in Operations Enduring Freedom and Iraqi Freedom.

Jake is the Past Chair on the Board of the Central Florida Development Council, serves as an advisor for the aviation program at Southeastern University in Lakeland, Florida, and also volunteers for his church in various capacities. He is active in the local General Aviation community, is a Certified Flight Instructor – Instrument (CFII) in single and multi-engine land aircraft as well as an instructor pilot in single engine seaplanes. Jake and his wife Sandra, a Florida native, have been married for forty years. Their oldest son, Chad, is a Lieutenant Colonel in the U.S. Air Force with his wife, Julie, and they have two sons, Nolan and Garrett. Jake and Sandra's youngest son, Erik, lives in Virginia with his wife, Alexine, where they run four very successful businesses together.

Keynote VII: Monday, June 13, 2022, 11:40 am – 12:20 pm



Dr. Duane Davis
Chief Physician Executive
AdventHealth Institutes
Orlando, Florida, USA

Dr. Duane Davis is the Chief Physician Executive of AdventHealth Institutes. As CPE, Dr. Davis oversees the Cardiovascular, Cancer, Neurosciences, Orthopedic, Digestive Diseases and Surgery Institutes of AdventHealth Central Florida Division based in Orlando, Florida. He is responsible for strategy, quality and consultative engagement for the finances and operations of these Institutes, all nationally ranked or recognized by U.S. News & World Report. He remains clinically active in the lung transplant and CTEPH programs.

Prior to joining AdventHealth, Dr. Davis was Professor of Surgery and Director of Transplantation at Duke University Medical Center, where he served for over two decades. Prior to leaving Duke, he had performed the most lung transplants worldwide. Published in more than 250 referred journals, Dr. Davis has also contributed to 27 books and over 150 selected abstracts. As an expert in his field, Dr. Davis has been served as a consultant on over 58 advisory boards and committees and has given numerous educational presentations worldwide. His areas of research interest include: the role of environmental exposure and innate immunity of chronic pulmonary allograft injury; optimization of donor lung utilization—novel strategies to preserve and improve lung organ function; lung transplant outcomes; and tolerance in lung transplantation. Since 2010, his research has raised NIH external support exceeding \$4 million. He is currently licensed to practice medicine in Florida, North Carolina, Missouri and Virginia, and certified by the National Board of Medical Examiners, the American Board of Surgery, and the American Board of Thoracic Surgery. Dr. Davis received his Doctor of Medicine from the University of California medical school in Los Angeles, California, and later earned a Master of Business Administration from Fuqua School of Business at Duke University, focused on Health Sector Management. He holds two Bachelor of Science degrees from Stanford University in Chemical Engineering and Biologic Sciences. He is married with three children and resides in Winter Park, Florida.

Keynote VIII: Monday, June 13, 2022, 12:20 – 1:00 pm



Ms. Donna Slyster
Senior Vice President and CIO
Saddle Creek Logistics Services
Florida, United States

Quality-driven Global Supply Chain and Information Technology Executive who delivers consistent successful results for increased shareholder value, business profitability, customer satisfaction and employee engagement. Exceptional in building global teams and creating business partnerships that drive improved performance and innovation. Extensive experience in developing Supply Chain solutions, process improvements, system implementations and people leadership. Skilled in the following competencies: Executive Leadership, Strategic Planning, Change Management, Operations Leadership, Vendor Relationships, Project Management, Systems Implementation, Financial Management and Six Sigma Solutions.

Tuesday, June 14, 2022

Conference Industry Chair Remarks: Tuesday, June 14, 2022, 10:00 – 10:20 am

Keynote IX: Tuesday, June 14, 2022, 10:20 – 11:00 am



Dr. Mary Vollaro
Professor and Chair
Department of Mechanical Engineering and Environmental Engineering
Florida Polytechnic University
Lakeland, FL USA

Dr. Mary B. Vollaro is chair of the Department of Mechanical Engineering and an associate professor of mechanical engineering at Florida Polytechnic University. Prior to that, she was assistant, then associate professor of mechanical engineering from 1997 to 2016 at Western New England University (WNE) in Springfield, Massachusetts. While there she was involved in university governance and chaired the Faculty Senate (twice) and the General University Requirements Committee and the Academic Standards Committee multiple times. She developed the Honors Program in the College of Engineering, as well as the Grand Challenge Scholars Program at WNE.

Vollaro has held engineering positions in industry and holds one patent. Involved with engineering education, she was chair of the ASEE Materials Division and continues to be active in that ASEE Division. She has written in the area of materials science education and is now working on leadership and teaming activities for engineers.

Keynote X: Tuesday, June 14, 2022, 11:00 – 11:40 am



Dr. Mansooreh Mollaghasemi

Associate Professor
Industrial Engineering & Management Systems Department
University of Central Florida
Orlando, Florida, USA

MANSOOREH MOLLAGHASEMI is an associate professor of Industrial Engineering and Management Systems at the University of Central Florida. She received her Ph.D. in Industrial Engineering from the University of Louisville in 1991. She also holds a B.S. and an M.S. in Chemical Engineering from the same University. Her research interests involve simulation modeling and analysis, multiple response simulation optimization, and neural networks. She is a member of IIE and INFORMS.

Keynote XI: Tuesday, June 14, 2022, 11:40 am – 12:20 pm



Dr. Ahmed Kamel

Senior Key Expert, Additive Manufacturing and Innovation
Siemens Energy
Orlando, Florida, United States

Dr. Kamel has more than 25 years in the automotive and gas turbine industries with a focus on rapid prototyping and rapid manufacturing. He is currently a senior key expert of additive manufacturing and innovation at Siemens Energy. In his current role, Dr. Kamel consults for global teams to diffuse the use of additive manufacturing to drive innovation in design, manufacturing and repair of gas turbine components. His research is currently focused on the design of superalloys for 3D printing. Dr. Kamel has been granted more than 100 patents in the US, Europe and Asia. In 2021, he was nominated for the Siemens Energy Inventor of the year award.

He earned his Bachelor of Science and Advanced graduate degrees in Mechanical and Aerospace engineering from the American University in Cairo (Egypt) and Carleton University (Ottawa, Canada). He also holds a doctorate in Business Administration with a focus on Operations management and Innovation from the Crummer Graduate School of Business (Rollins College, Florida). He is also a certified Innovation Engineering practitioner by the Innovation Engineering Institute (Cincinnati, Ohio).

Keynote XII: Tuesday, June 14, 2022, 12:20 – 1:00 pm



Dr. Timothy Kotnour

Lockheed Martin St. Laurent Professor
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, Florida, USA

Tim Kotnour, Ph.D., is the Lockheed Martin St. Laurent Professor in the Department of Industrial Engineering and Management Systems at the University of Central Florida. He is the Director of the UCF Engineering Leadership and Innovation Institute (eli2) and the Professional Engineering Management Program. He completed his doctorate in Industrial & Systems Engineering from Virginia Tech. His core work focuses on “making strategy real.” He integrates both corporate and academic settings by partnering with senior management teams to develop solutions through technical assistance, education, training, and research. He focuses on strategic management, organizational transformations, and solution delivery. He provides professional presentations and strategic conversation facilitation to leadership teams as large as 200+ people. He has been actively engaged with multiple

executive teams in leading significant transformations including NASA's Kennedy Space Center, NASA's Launch Services Program, NASA's Exploration Ground Systems, and the transformation of the packaged-goods model to a mobile, social, and direct-to-consumer business model within the video-game industry. In 2016, 2005, and 2001, Tim was awarded a NASA Public Service Medal for the partnership work with KSC. He has lead transformations within the university setting. He is author of the book “Transforming Organizations: Strategies and Methods” and co-author of the book “Inspiring the Leader Engineer—Instilling the Burning Desire and Confidence to Change the World.” He served as the Editor of the Engineering Management Journal and is a Fellow of the American Society for Engineering Management.

Plenary Speakers

Sunday, June 12, 2022

Plenary I

June 12, Sunday, 8:00 – 9:30 am, Room 1 (Onsite) - Ballroom

Session Chair: Dr. Luis Rocha Lona

8:00 am – 8:30 am, Sunday, June 12



Dr. Luis Rabelo

Professor, Department of Industrial Engineering & Management Systems
University of Central Florida, Orlando, FL, USA

Dr. Luis Rabelo received the BS in Electro-Mechanical Engineer from the Technological University of Panama in 1983, an MS in Electrical Engineering from the Florida Institute of Technology in 1987 Master's and Doctorate in Engineering Management from the University of Missouri. He was a Postdoc at the University of Missouri in Nuclear Engineering. Dr. Rabelo received a dual MS in Systems and Management from the Massachusetts Institute of Technology. He has worked for the Advanced Technology Group (Goodrich) and Honeywell Laboratories. Dr. Rabelo was a NASA Fellow from 2002 to 2005, and a Project Manager at NASA from 2009 to 2011. He is currently Professor in the Industrial Engineering and Management Systems Department at UCF. He is also the Undergraduate Coordinator. He has written more than 300 articles and a book in Artificial Intelligence. He has been the principal advisor for 39 Master's students and 29 PhDs. He received the award for the Best Scientific Article of the Year 2004 from the Society of Automotive Engineers, received the distinction "ONE NASA" in 2006. He was the recipient of the Fulbright Distinction in 2008. In November 2008, he received the honor of the Technological

University of Panama (UTP) of being the 2008 Distinguished Alumni. In 2011, he was the Henaac Award Winner in Education. In 2013 and 2018, he received the Forest R. McFarland Award from the Society of Automotive Engineering (SAE). Lately, he received the SAE Russell S. Springer Award for his article on the modeling of space operations systems in 2017.

8:30 – 9:00 am (Sunday, June 12)



Hailey Skoglund

Data Analyst
The Walt Disney Company
Orlando, Florida, USA

Hailey Skoglund is from Spring Hill, Florida and works as a Data Analyst at The Walt Disney Company under the Commercial Optimization Platform Insight (COPI) Data Science team. Throughout Hailey's time at Disney, she has had the opportunity to navigate large, complex data sets using industry tools to extract and visualize data-driven insights and provide strategic recommendations for stakeholders across The Walt Disney World theme parks. Prior to her career at The Walt Disney Company, Hailey was an Electronic Data Interchange (EDI) Configuration Analyst at PlanSource, an employee benefits management platform.

Hailey received her bachelor's degree in Business Analytics with a concentration in Quantitative Economics and Econometrics from Florida Polytechnic University. She is currently working on her master's degree in Analytics from the Georgia Institute of Technology. Her research interests are focused in applied microeconomics, data analytics, and lean six sigma.

Hailey is very active in her community through her involvement in the IEEE-HKN, Phi Theta Kappa, and Psi Beta honor societies. She also serves as a board member on the Florida Polytechnic University Foundation Board of Directors and volunteers at the Lighthouse for the Visually Impaired and Blind. Hailey also serves as a member of Disney Emerging Professionals and speaks on the Diversity Equity and Inclusion Council at The Walt Disney Company. Hailey is also a proud recipient of the Business and Professional Women Scholarship.

9:00 – 9:30 am (Sunday, June 12)



Dr. Luis Rocha Lona

Lecturer in Operations Management, Business School
National Polytechnic Institute of Mexico
México 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.

Plenary II

June 13, Monday, 8:00 – 9:30 am, Room 1 (Onsite) - Ballroom

Session Chair: Paul Odomirok

8:00 am – 8:30 am (Monday, June 13)



Eric Ayanegui, CPMM, CRL
Director Operations Engineering
Cintas Corporation
Houston, Texas, USA

Mr. Eric Ayanegui is currently the director of Operations Engineering of CINTAS. As one of the technical leaders at CINTAS, he has been directing engineering, reliability, quality and safety initiatives across 210 industrial sites across North America and China. He has over 20 years of experience in the industrial laundry industry and has been involved in industrial leading efforts in Reliability and Safety. He is a member of the CINTAS Corporate Executive Faculty teaching Reliability and a certified Plant Maintenance Manager and Certified Reliability Leader. He is a member of Industrial Engineering Academy of Distinguished Alumni of UH and has served on the advisory board of Industrial Engineering Department at UH since 2015. He holds a BS degree in Industrial Engineering from the University of Houston.

8:30 am – 9:00 am (Monday, June 13)



Joseph Akyeampong, PhD
Human Factors Engineering Consultant
Amgen
Fort Lauderdale, Florida, United States

Dr. Joseph Akyeampong is a creative Industrial & Systems engineer who currently works as Human Factors Engineering consultant at Amgen. He has spent his career applying his Human Factors expertise on the development of safe and effective biopharmaceutical combination products (at Amgen), medical devices (at Medtronic and Stryker), and nuclear power plant control rooms (at General Electric and Westinghouse). Notable projects he has worked on include: Amgen combination products including prefilled syringes and autoinjectors; the Stryker Mako robot for orthopedic/joint replacement surgeries; various Medtronic programmable neuromodulation systems; the Westinghouse AP1000; and the GE-Hitachi Economic Simplified Boiling Water Reactor (ESBWR). Dr. Akyeampong received his PhD in Industrial & Systems Engineering from North Carolina A&T State University (USA) and a Bachelor's in Mechanical Engineering from Kwame Nkrumah University of Science and Technology (Ghana).

Dr. Akyeampong is passionate about human factors engineering and technological innovations in general, with strong interests in healthcare.

9:00 am – 9:30 am (Monday, June 13)



Paul Odomirok
President and CEO
Performance Excellence Associates, Inc.
St Augustine, Florida, USA

For the past 45 years, Paul has been involved in several careers spanning Academia, Engineering and Development, Manufacturing, Corporate Executive Leadership, Consulting and Entrepreneurship. In his 'first career', he taught Mathematics and Computer Science at all levels of learning, from Pre-School to Post-PhD. He was even involved in designing graduate level curriculums at the University of South Carolina as an Adjunct Professor. His second career began in 1985 with NCR (National Cash Register). Beginning as a Senior Programmer Analyst, he was promoted to Manager - Software Development, Product Manager, Manager – Product Management, Corporate Strategic Planner for Banking and Retail, Director – Retail Systems Product Integration, Retail Systems Manufacturing, Director of Quality and Customer Satisfaction, and Corporate Coach. During his

stint in corporate America, he was involved in the NCR/AT&T merger, and was responsible, as a Director of Quality, for the cultural transformation and change leadership for the Retail Systems Division Organization in Duluth, Georgia, at the Lean Manufacturing Plant. Leveraging his involvement with Bell Labs Organization Effectiveness Group and Harvard Business School T.E.A.M. Research Study, he left NCR/AT&T in 1995 to pursue a consulting career, in the areas of Leadership, Strategy, and Performance Improvement. Over the past 25 years, he has worked with more than 100 organizations on over 250 strategic, leadership and performance improvement projects and programs. His past clients include Anixter, AT&T, Boeing, IISE, Motorola, GM, Northrop Grumman, U.S. Department of Defense and many major Universities. Most recently he provided performance improvement assistance to LXE, Crosby Tools, CNA Insurance, Fibervisions, DeLaval, Perkins and Will, Boston Whaler, The Department of Defense, Care Logistics, Medivators, Med America, Sparten, Emory Hospital, Grady, Oscar Health, Health First, ASAA Insurance, The Georgia Hospital Association and many others encompassing several markets and industries including; Engineering, Manufacturing, Healthcare, Aerospace, Telecommunications, Government, Defense, Supply Chain, Energy, Retail, Banking, Academics and Higher Learning. His first book, "Affordability: Integration of Value, Customer and Cost for Continuous Improvement" was released December 2016. His newest book, "Healthcare Affordability: Motivate People, Improve Processes, and Increase Performance.", was released September 2018. He is currently, President and CEO of Performance Excellence Associates, Inc.

Plenary III

June 14, Tuesday, 8:00 – 9:30 am, Room 1 (Onsite) - Ballroom

Session Chair: Sandro Paz, Ph.D.

8:00 – 8:30 am (Tuesday, June 14)



Sagit Kedem-Yemini
Logistics Department
Sapir Academic College, Sderot, Israel

Sagit Kedem-Yemini is an Industrial Engineer, proficient in information systems and currently holding two lecturing positions: a tenured lecturer position at Sapir Academic College (Logistics Department) and an adjunct lecturer at Ben Gurion University (both in IE&M and Faculty of Business and Management). Her teaching portfolio is broad, focusing on Enterprise Systems implementation (SAP and Oracle Applications) and derivatives of ERP data collection – from Business Analytics to Process Mining. Additionally, she has extensive experience in academic curriculum development, is head of her department's teaching committee and serves as liaison to the graduation projects unit. Her research interests include Process Mining and its practical applications, ERP relates issues and DSS development. Since 2015 Dr. Kedem-Yemini serves as member of JITCAR Editorial Review Board, and since 2019 is a faculty advisor of the Student Chapter of the IEOM Society at Sapir Academic College. Prior to her

academic career, Dr. Kedem-Yemini worked at a global Clean-Room Fab Build-Up Construction Management Company with major clients (such as Intel, Tower Semiconductors, and Teva Pharmaceuticals), where she held various positions, including Logistics Manager, Scheduling Manager and CIO (Chief Information Officer).



Dr. Tali Freed
Director, PolyGAIT-RFID Research and Development Center
Professor, Industrial and Manufacturing Engineering Department
California Polytechnic State University
San Luis Obispo, California, USA

Dr. Freed received her Ph.D. from the U.C. Berkeley Department of Industrial Engineering and Operations Research. Her B.Sc. and M.Sc. are in Industrial Engineering and Management, from the Technion-Israel Institute of Technology. Dr. Freed's industrial experience includes leading process improvement and system development projects in the electronics and semiconductor manufacturing industry, as a consultant and as a senior engineer. She was also the first female electronics technician in the Israeli Air Force. Her research areas include RFID (radio frequency identification), production planning and scheduling, design of production systems, development of information systems, production costing models, and organization design for effectiveness. She has published journal articles, a book chapter, and case studies on these topics.

She teaches courses in the areas of Operations Research, Information Systems Design, Simulation, Process Analysis and Improvement, and Electronics Manufacturing. She has been the advisor of numerous senior projects and master's theses. Many of these projects were funded by industrial partners. These projects span the range of industrial engineering topics, including facility planning, simulation, inventory management, databases, scheduling and capacity planning systems, yield management, budget risk assessment, cost-benefit analyses, and others.

8:30 – 9:00 am (Tuesday, June 14)



Sandro Paz, Ph.D.
Director of the Industrial Engineering Program – PUCP
Former Director of University Accreditation
Pontificia Universidad Catolica del Peru
San Miguel, Peru

Sandro Paz is a Professor at the Pontificia Universidad Catolica del Peru (PUCP). He graduated from PUCP as an Industrial Engineer, holds a MS from the University of Puerto Rico, and a PhD in Industrial Engineering from University of South Florida. Dr. Paz was the Director in the Peruvian accreditation board, which has allowed him to learn about the Peruvian university system. He also has worked in several consulting projects related with optimization and quality management. As of today, he is Program Director of Industrial Engineering (undergraduate) and Engineering Management (graduate) programs. He leads the accreditation process for all engineering programs at PUCP that have achieved accreditations from CEAB (Canada), Abet (USA), and Icacit (Peru)

9:00 – 9:30 am (Tuesday, June 14)



Dave Harry
Black Belt Trainer / Kata Coach
President & CEO, Process Whisperer® Consultants LLC
Greeneville, TN, USA

Experienced Lean Six Sigma Champion, Black Belt, Six Sigma Instructor, US Naval Officer, Naval Aviator, change agent and Project Manager. PMI Certified Project Management Professional (PMP®), Triple accreditation as Certified Six Sigma Black Belt (CSSBB) from ASQ, Rolls-Royce and Northrop Grumman and a SME Lean Bronze Certified (LBC). Currently leading Process Whisperer® Consultants offering specialized business process analysis and project management consulting services. Lean Six Sigma Instructor and Coach at TMG, Inc and Toyota Kata Coach and Instructor. Dedicated volunteer to many organizations including ASQ, PMI, and IISE. Most recently Six Sigma Trainer for University of Tennessee Center for Industrial Services (UT-CIS) and Continuous Process Improvement Commercial Black Belt. lean instructor, and internal auditor with Rolls-Royce Energy Systems in Mount Vernon, OH. Formerly a DoD

Black Belt and instructor with US Joint Forces Command and Independent Verification and Validation (IV&V) software engineer and a Cost Benefit Analyst for US Government programs. Progressively responsible broad program management experience as Naval Officer and defense contractor. Multiple Masters-Level degrees (Management, Systems Management and Foreign Affairs).

Specialties: Lean Six Sigma Champion, Black Belt and Lean Six Sigma Instructor, Certified Project Management Professional (PMP®), Rolls-Royce, Northrop Grumman and American Society for Quality Certified Six Sigma Black Belt (CSSBB). Toyota Kata instructor and Six Sigma Trainer for University of Tennessee Center for Industrial Services (UT-CIS). International Team Excellence Award (ITEA) Judge, Institute for Industrial Engineers (IIE) Certified Lean Facilitator, Independent Verification & Validation (IV&V) Software engineer, Internal ISO 9001 Auditor.

Plenary IV

June 14, Tuesday, 8:00 – 9:30 am, Room 1 (Onsite) - Ballroom

Session Chair: Dr. Saso Krstovski

2:00 – 2:30 pm (Tuesday, June 14)



Dr. Saso Krstovski, MBB

Lean Manufacturing Coach /Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company
Michigan, USA

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

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

2:30 – 3:00 pm (Tuesday, June 14)



Dr. Daw Alwerfalli

Professor of Mechanical and Manufacturing Engineering
Director of Master of Engineering Management Program
College of Engineering
Lawrence Technological University
Southfield, Michigan, USA

Bio: Prominent professor, senior technical industry consultant and manufacturing engineering educator with a tremendous expertise in program and curriculum development in higher technical education. Highly experienced and dedicated community leader with great ability to work with an array of constituencies and coalitions in developing shared organizational vision to create and implement strategies aimed at advancing common causes to

accomplish goals in fulfillment of the organization's mission. Highly perceived expert and industrial advisor. He is the founder of Manufacturing Engineering Solutions (MES) a consulting firm founded in 2000. He is senior technical consultant and strategist to the US manufacturing industry. MES developed executive training programs to numerous organizations such as Chrysler, Ford, GM, Exxon Mobil, Conco Philips, Marathon and Tier I and II suppliers to the US auto industry and other international companies. Published numerous research papers in many national and international conferences.

Dr. Alwerfalli is a recipient of many prestigious awards including, the 2009 Arab American of the year in education, 1997 Lawrence Tech. Excellence in Teaching Award, 2004 Outstanding Engineering Faculty. He serves on many boards of directors, he also served on the Advisor Council of the Governor of Michigan for the Arab American and Chaldean Affairs Committee. He is currently serving on the steering committee of MAT 2 for dual education where he is a lead assessor to evaluate colleges for readiness in joining MAT 2 coalition of several German US based companies. Dr. Alwerfalli is also serving on the steering committee of "LIFT" Lightweight Innovation for Tomorrow, The committee is to develop innovative educational curriculum and skills for the next generation workforce for the Michigan, Ohio, Indiana and Tennessee under \$148 Million, a federal grant for the year 2015-2016. For several years, Dr. Alwerfalli served as the academic advisor of many doctoral students who obtained their doctorate degrees and are currently leaders in the US auto industry.

3:00 – 3:30 pm (Tuesday, June 14)

Panel Sessions

Panel on Lean Six Sigma (Panel I)

2:00 – 3:30 pm, Sunday, June 12, 2022 – Onsite Room 1

Panel Chair



Dave Harry
Black Belt Trainer / Kata Coach
President & CEO, Process Whisperer® Consultants LLC
Greenville, TN, USA

Experienced Lean Six Sigma Champion, Black Belt, Six Sigma Instructor, US Naval Officer, Naval Aviator, change agent and Project Manager. PMI Certified Project Management Professional (PMP®), Triple accreditation as Certified Six Sigma Black Belt (CSSBB) from ASQ, Rolls-Royce and Northrop Grumman and a SME Lean Bronze Certified (LBC). Currently leading Process Whisperer® Consultants offering specialized business process analysis and project management consulting services. Lean Six Sigma Instructor and Coach at TMG, Inc and Toyota Kata Coach and Instructor. Dedicated volunteer to many organizations including ASQ, PMI, and IISE. Most recently Six Sigma Trainer for University of Tennessee Center for Industrial Services (UT-CIS) and Continuous Process Improvement Commercial Black Belt. Lean instructor, and internal auditor with Rolls-Royce Energy Systems in Mount Vernon, OH. Formerly a DoD Black Belt and instructor with US Joint Forces Command and Independent Verification and Validation (IV&V) software engineer and a Cost Benefit Analyst for US Government programs. Progressively responsible broad program management experience as Naval Officer and defense contractor. Multiple Masters-Level degrees (Management, Systems Management and Foreign Affairs).

Specialties: Lean Six Sigma Champion, Black Belt and Lean Six Sigma Instructor, Certified Project Management Professional (PMP®), Rolls-Royce, Northrop Grumman and American Society for Quality Certified Six Sigma Black Belt (CSSBB). Toyota Kata instructor and Six Sigma Trainer for University of Tennessee Center for Industrial Services (UT-CIS). International Team Excellence Award (ITEA) Judge, Institute for Industrial Engineers (IIE) Certified Lean Facilitator, Independent Verification & Validation (IV&V) Software engineer, Internal ISO 9001 Auditor.

2:00 pm – 2:15 pm



Dr. Cindy Young, PMP, LSS MBB, CMQ-OE
Founder/CEO
CJ Young Consulting LLC
Chesapeake, Virginia USA

Founder/CEO, CJ Young Consulting, LLC. The mission of CJ Young Consulting, LLC is to help organizations optimize human-centric knowledge to increase trust and support collaboration and inclusion. Working together, we can ensure the desired human-centric mindset for managing your organization's knowledge is captured and able to be shared, transferred, and used by those in the organization who need it.

2:15 pm – 2:30 pm



Terra Vanzant Stern, PhD
LSS MBB, PMP®
CEO of Simple, Smart, Decision-Making dba SSD Global Solutions
Conifer, Colorado USA

Dr. Stern is a USAF veteran who has written several books and articles on problem solving, process improvement and leadership. Her most well-known book is Lean Six Sigma: International Standards and Global Guideline (Routledge). Her latest book by the same publisher is currently being used at Metropolitan State University: Leaner Six Sigma – Making Lean Six Sigma Easier and Adaptable to Current Workplaces. Dr. Stern's latest work has been with Design Thinking: A Model for Process Improvement, Innovation and Invention.

Additionally, Dr. Stern has published two Kindle books: LEANER Six Sigma and A Leaner Approach to Government and Public Utilities. Her book Lean and Agile Project Management went into 2nd Edition May 2020. Dr. Stern's

latest work is on Employee Engagement, She is offering training and certification as an Employee Engagement Coach.

Dr. Stern has worked with George Washington University, Baker University and CSU developing programs in the areas of practical statistics, leadership and critical thinking. Dr. Stern has performed executive coaching, facilitation and Kaizen sessions (rapid improvement events) for companies such as Tennessee Valley Authority, Southern California Edison, South Texas Project, Ahold Holding, County of Jefferson Colorado and the Denver Federal Center.

Dr. Stern's past board positions include: Chair, ASQ Lean Enterprise Division, Strategy Chair Colorado Human Resource Association, Member at Large, Colorado Ethics Committee and Curriculum Chair for Projects with Industry (who worked placing developmentally disabled adults in the workforce community).

2:30 pm – 2:45 pm



Ms. Vic Wilson, LSS MBB, PMP, Agile PM
CEO, Vic Wilson Consulting LLC
Hertford, NC USA

Over 25 years of experience utilizing forward-thinking, Lean solutions in organizational strategic analysis, process improvement program development, and innovative approaches to lead and manage complex programs and deployments. Included in this experience is the use of mapping, program planning, and statistical analysis applications. Ms. Wilson's greatest strength is the ability to enter a situation, analyze the opportunities and gaps, and develop an exceptional plan for successful improvement and business operations.

Essential Skills:

- Researching, analyzing, and establishing standards and best practices to optimize clinical safety, productivity and patient service
- Writing and executing RFPs and source selection processes to procure high quality vendors
- Designing and executing metrics based healthcare projects to improve operational processes, reduce Hospital Acquired Infections (HAI), and increase patient safety across hospitals and Home Care services
- Develop & facilitate Partnering Sessions, Focus Groups, Strategic Planning Sessions, & Gap Analyses
- Design & facilitate VSMs, RIEs, & 5S Events
- Curriculum designer, Trainer, & Mentor for WB, YB, GB, & BB Lean Six Sigma Classes
- Project Management: Costing (EVMS), Scheduling & Resourcing, & Performance Tracking/Reporting
- Risk Assessment & Tracking

Tools: MS Project, Visio, iGrafx, SQL, Excel Advanced applications, & Minitab.

Specialties: Certified Agile Project Manager; Certified PMP & Lean Six MBB; ISO 9001-2000 Auditor, Malcolm Baldrige Trained Examiner, CMMI appraiser.

2:45 pm – 3:00 pm



Patricia (Pat) Tyre, PMP®, ACP, PSM, LSSMBB
Managing Director, Business Excellent Group, Inc.
Norwalk, Connecticut, USA

Pat Tyre is a Managing Director of Business Excellence Group, Inc a consulting Practice focused on Operational Efficiency and Technology Implementations as an enabler of change. Focused primarily on financial service, life science, and pharma industry clients, she works with the C-Suite leaders to apply Lean to IT and transform organizational from a Waterfall culture to an Agile culture. Pat and her team assume the role of Agile evangelists and innovation facilitators to support forward progress and model Agile mindsets. Knowing the potential for destabilization when organizations are forced to change, she offers a proprietary "pace of change" dashboard that she uses with the C-suite to validate speed of change

Pat has always been a proponent of lifelong learning. As an Adjunct at NYU, University of Connecticut, University of Bridgeport, and now College of Charleston, Pat teaches a Global Leadership class, and a Big Data Visualization class as well as the PMI PMP and ACP curriculum. She is an extensive writer about the diversity of learning opportunities, has created learning pathways using AI, and has been asked to speak at many PMI conferences, and a panelist for the Aspen Institute – Future of Work initiative. Pat sits on the Connecticut Governor's Workforce Council, supporting a distributive learning and work initiative.

Pat has an MBA from New York University, and a Master Black Belt Certification from General Electric's program. She has a PMI-PMP and a PMI-ACP as well as the Professional Scrum Master and SAgE credential. Pat has authored 2 books (Microfinance, and the Darwinism of Non-Profits) and numerous articles and has spoken at many PMI events.

Presidential Panel on the Future of IEOM Discipline

4:00 – 6:00 pm, Sunday, June 12, 2022 – Onsite Room 1

Panel Chair



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

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

Panel Co-Chair

**Professor Hamid Parsaei, Ph.D., PE**

Professor, Department of Industrial and Systems Engineering
Interim Director, College of Engineering Accreditation and Assessment
Texas A&M University
College Station, Texas, USA

Hamid R. Parsaei is a Professor in the Department of Industrial and Systems Engineering and Department of Mechanical Engineering at Texas A&M University (College Station) and also Professor of Mechanical Engineering at Texas A&M University at Qatar. He is a registered professional engineer (PE) in Texas, a Fellow of the Institute of Industrial and Systems Engineers (IISE), and a Fellow of the American Society for Engineering Education (ASEE). He has published over 280 articles in peer-refereed archival journals and conference proceedings. He has also served as editor/co-editor in chief for four academic journals and eight book series. His research, in excess of \$26 million, has been funded by numerous government and private institutions.

Panel Speakers

**Dr. Waldemar Karwowski**

Pegasus Professor and Chairman
Department of Industrial Engineering and Management Systems
University of Central Florida, Orlando, Florida, USA

Waldemar Karwowski is Pegasus Professor and Chairman, Department of Industrial Engineering and Management Systems, University of Central Florida, USA. He holds an M.S. in Production Engineering and Management from the University of Technology Wroclaw, Poland, and a Ph.D. in Industrial Engineering from Texas Tech University, USA. He was awarded D.Sc. in management science by the Institute for Organization and Management in Industry, Warsaw, and received the National Professorship title from the President of Poland (2012). Three Central European universities also awarded him Doctor Honoris Causa degrees. Dr. Karwowski served on the Board on Human Systems Integration, National Research Council, USA (2007–2011). He currently is Co-Editor-in-Chief of Theoretical Issues in Ergonomics Science journal, Editor-in-Chief of Human-Intelligent Systems Integration journal, and Field Chief Editor of the Frontiers in Neuroergonomics. Dr. Karwowski has over 550 research publications, including over 200 journal papers. He is Fellow of the Ergonomics Society (U.K.), Human Factors and Ergonomics Society (HFES), Institute of Industrial and Systems Engineers (IISE), and the International Ergonomics Association (IEA), and served as President of both HFES (2006-2007) and IEA (2000-2003). He received the William Floyd Award from the Chartered Institute of Ergonomics & Human Factors, the United Kingdom in 2017, and the David F. Baker Distinguished Research Award. Institute of Industrial and Systems Engineers, Atlanta, USA, in 2020. He was elected to Academy of Science, Engineering and Medicine of Florida (ASEMFL), Orlando, Florida, USA, November 2020.

Society (HFES), Institute of Industrial and Systems Engineers (IISE), and the International Ergonomics Association (IEA), and served as President of both HFES (2006-2007) and IEA (2000-2003). He received the William Floyd Award from the Chartered Institute of Ergonomics & Human Factors, the United Kingdom in 2017, and the David F. Baker Distinguished Research Award. Institute of Industrial and Systems Engineers, Atlanta, USA, in 2020. He was elected to Academy of Science, Engineering and Medicine of Florida (ASEMFL), Orlando, Florida, USA, November 2020.

**Dr. Shahram Taj**

Chair and Professor, Department of Data Science & Business Analytics
Florida Polytechnic University, Lakeland, Florida, USA

Dr. Shahram Taj joined Florida Polytechnic University in August 2016 as a professor of logistics and supply chain management. He served as the academic program coordinator of science and technology management and the academic program coordinator of graduate programs in 2017. Since January 2018, he has served as the chair of the department of data science and business analytics. Taj has extensive tenure in academia. He was professor and chair of the Department of Management and Marketing at Lawrence Technological University in Michigan from 2013 to 2016. He served as The Cameron Endowed Chair of Management and Marketing at the University of St. Thomas in Houston from 2008 to 2013. Taj previously taught for more than 20 years at the University of Detroit Mercy. Taj has conducted more than 100 projects at Ford, Visteon, New Venture Gear (formerly joint venture of

GM and DaimlerChrysler), GM- Holden, Baker Hughes, and Schlumberger in the United States, Germany, Australia, and Japan. The projects have covered productivity improvements, implementing lean manufacturing, and optimizing process design. In 1999, he earned the Franz Edelman Finalist Award for Achievement in Operations Research/Management Science for projects that resulted in \$15.5 million capital savings and a profit increase of more than \$2 billion for Ford Motor Company. Taj has served as thesis advisor/reader of more than 100 graduate students at the University of Detroit Mercy, including a doctoral thesis committee at MIT. He served as the track chair of the "Lean Manufacturing, Manufacturing Information Management, Supply Chain, and Product Development" for the SAE International in Ireland, Spain, and France. He has published 68 refereed articles in journals and proceedings of many international conferences. Recently, he published several articles on the adaptation of lean production in China, and most recently in areas of sustainability and business model innovation.

**Dr. Abdelaziz Berrado**

Professor and Chair, Department of Industrial Engineering
The Ecole Mohammadia d'Ingénieurs (EMI)
Rabat, Morocco

Aziz is a faculty member of Industrial Engineering at Ecole Mohammadia d'Ingenieurs(EMI), University Mohammed V, Rabat, Morocco. His research interests are in the areas of Machine Learning, Supply Chain Management, Quality, Reliability and Safety. His research work is about developing frameworks, methods and tools for systems' diagnostics, optimization and control with the aim of operational excellence. He published several papers in international scientific journals and conferences' proceedings. In addition to academic work, he is a consultant in the areas of Advanced Analytics, Supply Chain Engineering, and Quality Engineering for different Industries. He was also a senior engineer at Intel. Specialties: Advanced Analytics, Supply Chain Management, Lean Six Sigma,

Data Mining and Machine Learning, Project Management, Industrial Statistics, Quality Management, Statistical Process Control, Applied Multivariate Statistics, Design and Analysis of Engineering Experiments and Response Surface Optimization, Process Modeling and Production Planning and control.

**Wilkistar Otieno, Ph.D.**

Associate Professor and Chair
Industrial and Manufacturing Engineering
Preparing Engineers and Computer Scientist NSF-STEM Scholarship PI. & WiscAMP Faculty Mentor
University of Wisconsin-Milwaukee
Milwaukee, WI, USA

Wilkistar Otieno is an Associate Professor and Chair of Industrial and Manufacturing Engineering at the University of Wisconsin-Milwaukee. She holds a Doctoral degree in Industrial Engineering and Masters in Statistics degree both from the University of South Florida. She earned a Bachelor's degree in Mechanical and Production Engineering from, Moi University in Eldoret, Kenya. Her research interests include sustainable manufacturing (remanufacturing), sustainable energy (solar power generation systems performance analysis), sustainable water systems reliability and overall systems optimization. She has interests in Science Technology Engineering and Math education, particularly for female and underrepresented minority students. She is a member of IIE, IEEE, INFORMS, SWE and QSR.

Panel on Women in Industry & Academia (WIIA) – Panel III

2:00 – 3:30 pm, Monday, June 13, 2022 – Onsite Room 1

Panel Chair

**Akashita Sareen**

Engineer in the Operations Planning and Engineering department
FedEx Express
United States

Akashita Sareen is an Engineer in the Operations Planning and Engineering department at FedEx Express, the world's largest cargo airline and one of FedEx Corporation's subsidiaries. While at FedEx, she has contributed to a diverse range of projects related to last mile delivery, digital transformation, spatial data engineering, automation and more. She is directly responsible for the planning and development of multiple sortation facilities to meet customer needs in the growing logistics and supply chain industry. She holds a Bachelor of Science in Aerospace Engineering with a minor in Sustainability from Florida Institute of Technology and a Master of Science in Engineering Management from Marshall University. She also holds a Lean Six Sigma Green Belt certification.

Panel Speakers

**Sheena Butts**

Associate Vice President
Surgical and Procedural Services
Lakeland Regional Health

Passionate healthcare executive with proven ability to marshal change and innovation to drive business performance and growth. Mindful of the big picture and skilled at bringing together multiple silos of executive leadership, upper and middle management, and project team members to foster collaboration and build value. Known for applying creativity, analytical rigor, and transformational leadership skills to capitalize on opportunities to maximize operational efficiency, financial performance, and clinical excellence.

**Susan LeFrancois, Ph.D.**

Data Science
Florida Polytechnic University

Dr. Susan LeFrancois joined Florida Polytechnic University in July 2013, and has helped to design and build the curriculum, participated in outreach activities, and helped to develop industry relationships. Her background extends from work as an educator to industry jobs in the areas of quality assurance and government regulation.

She has taught students science from pre-school to college. From 2008-to 2012, she was an instructor in industrial and management systems in the College of Engineering at the University of South Florida in Tampa. The program was for industry professionals and provided a graduate certificate in medical devices and regulatory affairs.

LeFrancois also served as director of quality assurance for FTSI, an industrial sterilizer of medical devices and packaging. She developed and maintained the quality system according to ISO 13485 guidelines. In addition, she was a sterilization industry consultant for the gamma and EtO medical device sterilization industries.

LeFrancois received her doctorate in pharmacology and physiology from the University of Florida in Gainesville and her bachelor's in chemistry from the University of South Florida. Also, LeFrancois received a graduate certificate in health informatics from the University of South Florida.



Amy Augustyniak
Senior Manager, Supply Chain Analytics
SaddleCreek Logistics



Sanna Siddiqui, Ph.D.
Mechanical Engineering
Florida Polytechnic University

Prior to beginning her appointment at Florida Poly, Dr. Sanna F. Siddiqui was a postdoctoral associate at the University of Central Florida through the P3 Pre-eminent Postdoctoral Fellowship Program. Siddiqui earned a bachelor's degree in Aerospace Engineering with honors distinction (Magna Cum Laude), and a master's and Ph.D. in Mechanical Engineering from the University of Central Florida. During her time as a student, she held positions at Lockheed Martin Corporation and was the recipient of several honors and awards including the Order of the Engineer, President's Honor Roll, Who's Who Among Students at the University of Central Florida, and the Prestigious National Science Foundation Graduate Research Fellowship.

Siddiqui's doctoral dissertation work, entitled "Characterization of Anisotropic Mechanical Performance of As-Built Additively Manufactured Metals," has received much recognition, including a nomination for the 2019 Outstanding Dissertation Award at the University of Central Florida, 1st and 2nd place distinction in engineering at the 2017 UCF Graduate Research Forum, and Florida Statewide Graduate Research Symposium respectively, honorable mention for best student-authored paper in the materials division at the 2017 ASME International Mechanical Engineering Congress and Exposition (IMECE), and honorable mention distinction from the National Academies of Sciences, Engineering, and Medicine for the 2017 Ford Foundation Dissertation Fellowship Program.

Siddiqui is very interested in promoting women and minorities in engineering disciplines and was an invited speaker to the 2016 Athena International Women's Leadership Luncheon. She is a recipient of the 2016 Athena International Emerging Women Leader Fellowship and the 2015 Zonta International Amelia Earhart Fellowship, which is awarded to only 35 fellows internationally each year. During her time at Florida Poly, Siddiqui has led the development of the aerospace concentration in the Department of Mechanical Engineering. Her research is currently supported by a National Science Foundation Grant under the Division of Civil, Mechanical, and Manufacturing Innovation to assess the deformation mechanisms driving torsional fatigue failure of additively manufactured metals at high temperatures.

Panel on Industry 4.0 and Industry Solutions (Panel IV)

4:00 – 6:00 pm, Monday, June 13, 2022 – Onsite Room 1

Panel Chair



Lina Khan
Systems Engineer
Strategic Missile Defense
Lockheed Martin Space
Titusville, Florida, United States

Lina Khan serves as a Systems Engineer in the Strategic Missile Defense sector within the Lockheed Martin Space business area. Within the Aerospace and Defense (A&D) industry, she has held critical roles in program management, engineering, and operations, where she continues to pursue methods that ensure strategic growth and execution. Key initiatives include incorporating Industry 4.0 technologies such as smart factories, model-based engineering, and digital twin. Based on her industry experience, she has chosen to pursue a doctoral degree, at the University of Central Florida (UCF), with an Industry 4.0 research area. The potential contributions of this research relate to defining the critical success factors and developing a strategic framework for implementing Industry 4.0 technologies within the A&D industry. She has also earned a Bachelor of Science in Mechanical Engineering and a Master of Science in Engineering Management from UCF.

Panel Speaker I



Cintia Zuccon Buffon
Industrial Engineer
Ocean Insight
Orlando, FL, USA

Cintia Zuccon Buffon, MBA, MSIE, is an industrial engineer with 10 years of experience in the industry. She is currently pursuing her PhD in Industrial Engineering at University of Central Florida while working full-time as a Quality Engineer at Ocean Insight. Her research focuses on analyzing the voice of the customer (VOC) using artificial intelligence techniques in the Quality 4.0 era. Prior to her current position, she worked for large companies including GE Aviation, Dentsply Sirona, ZEISS and BASF. Besides industry work, she also has experience conducting research in the artificial intelligence field focused on using Natural Language Processing techniques and artificial neural networks to analyze and develop tools to estimate the volatility of financial assets in the stock

market.

Panel Speaker II

**Thomas Jones**

Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

Thomas Jones is a PhD candidate at UCF in the department of Industrial and Systems Engineering, and he holds B.S. and M.S. degrees in Industrial Engineering from Wichita State University. His research focus is on Quality 4.0 in manufacturing environments with an interest in how company culture and quality systems influence digital transformations.

Panel Speaker III

**Dr. Saso Krstovski, MBB**

Lean Manufacturing Coach /Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company, Michigan, USA

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

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

Panel Speaker IV

**Austin Taft**

Mechanical Ground Support Engineer
Strategic Missile Defense
Lockheed Martin Space
Cape Canaveral, Florida, USA

Austin Taft operates as a Mechanical Engineer in the SMD sector of the Lockheed Martin Space business segment, leveraging a Bachelor of Science in Aerospace Engineering from the Florida Institute of Technology. Within the Aerospace and Defense industry, he has provided both legacy program support and new design development through various engineering disciplines, products, and customers. A component of his current role involves championing Virtual and Augmented Reality integration into traditional work processes to find new methods of delivering technical data to key stakeholders. This technology provides stakeholders with additional product control and a redefined perspective, sparking unique conversations throughout product lifecycles to ensure deliverables are as effective and efficient as possible. As the A&D industry continues on its journey through Digital Transformation, Austin aims to find new ways in which Virtual and Augmented Reality can be value-add tools.

Panel on Global Supply Chain and Logistics (Panel V)

2:00 – 3:30 pm, Tuesday, June 14, 2022 – Onsite Room 1

Panel Chair

**Alper Senol**

Professor- Supply Chain Management
Miami Dade College, Miami, FL, USA

Alper Senol is an experienced process engineering manager with more than 12 years of strong working knowledge and experience in the transportation, supply chain & logistics, and manufacturing industries. Skilled in Project Management, Lean manufacturing / DMAIC, Operations Management, Quality Management, and Continuous Improvement. He is working towards a Ph.D. degree in Industrial Engineering and Management Systems at the University of Central Florida with the research subject of "Impact of Industry 4.0 on Global Supply Chain Management". He received his Master of Science in Engineering Management and Systems Engineering from the Old Dominion University and his Bachelor of Science in Information Management System from Strayer University. Also, he is Lean Supply Chain Management and Lean Six Sigma Green Belt Certified. When Alper was in university, he was the Student President of the Industrial Engineering department and received "The student of the month" award.

Alper started his career as an Industrial Engineer at M&G Electronics in 2010. He was responsible for lean initiatives of the company along with estimating production times, staffing requirements, developing weekly labor and production forecasting for production planning, designing workstation, workflows, and assembly lines, preparing manufacturing documentation (SOP) based on ISO standards and providing necessary training for production employees and operators.

Alper joined Perry Ellis International in 2013 as an industrial engineer. In this role, he has involved various sides of the supply chain management and warehouse management systems. He has executed two major WMS projects during his employment and received an outstanding achievement award representing the engineering department for executing an overseas WMS project successfully in 2014. His expertise includes implementing strategic initiatives and projects; overseeing WMS and WLM processes; and leading diverse staff to maximize productivity, efficiency, and overall business performance. Through his experience, he has become adept at ensuring alignment with organizational goals and requirements while facilitating streamlined transportation, logistics, and supply chain operations and building strategic relationships with internal and external stakeholders.

Alper worked as a process engineering manager at the Bel USA in Miami. He oversees and manages production, quality, supply chain, and logistics operations including need assessment, system upgrade, new process flow, and layout design, inventory management, performance metrics (KPIs), staff training, and project execution. He also supports logistics and supply chain operations while identifying and pursuing strategic opportunities to improve operational performance in terms of cost, time, quality for internal and external processes. He secured close to 1 million dollars in annual savings by implementing a freight & packaging optimization project and a quality improvement project that resulted in reducing the redo rate that was caused by production defects and breakage.

He is currently a full-time professor in Supply Chain Management department at Miami Dade College (MDC) where he teaches all subject related and engineering courses since 2020. Alper is working to build a Supply Chain Management laboratory in Miami Dade College West Campus's makerspace with his students to provide hand-on classroom experience. Laboratory will provide end-to-end supply chain solutions within the concentration of Warehouse Management Systems that includes robotics, automation and AI. He is an advisory committee member of the Supply Chain Management board at MDC. He also helped to build Data Analytics, Procurement and Project Management concentrations for the Supply Chain Management program and concluded with the state approval.

Panel Speaker I



Dennis Tribby
Director of Portfolio Solutions
Siemens Digital Industries Software, Florida, USA

Dennis Tribby is the Director of Portfolio Solutions for Siemens Digital Industries Software as well as a PhD Candidate at the University of Central Florida under the guidance of Dr. Ahmad Elshennawy in the department of Industrial Engineering and Management Systems. His research is related to how Cost Engineering practices impact project success in Six Sigma related projects. He holds a Master's degree in Mechanical Engineering and an MBA as well as a B.S. in Applied Mathematics from the University of Cincinnati. Dennis is also a certified Six Sigma Black Belt and a Certified Quality Engineer. He has more than 30 years of Engineering Services and Program Management experience with 25 of those years in the Aerospace and Defense industry in the areas of Product

Lifecycle Manager, Cost Engineering, Supplier Parts Management. Over the span of his career he has managed software deployment at Lockheed Martin for the JSF program as well as managing Siemens Industrial Machinery and Energy Services group.

Panel Speaker II



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

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

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

Panel Speaker III



Mohammad Anwar Rahman, Ph.D.
Associate Professor, Manufacturing and Construction Management
Central Connecticut State University
New Britain, CT, USA

Dr. Mohammad Anwar Rahman is a faculty at the Central Connecticut State University in Manufacturing and Construction Management. He has published papers in referred journals and presented results in conferences. His research focuses on logistics, supply chain management, stochastic process and designing quality procedure. Dr. Rahman conducted several research projects with Mississippi Dept. of Education (MDE) and US Dept. of Transportation (USDOT). He has various certifications including Lean Six Sigma Green Belt (Purdue University), Lean Principles (Purdue University), Demonstrated Master Logistician (The International Society of Logistics), Malcolm Baldrige Quality Award Examiner (Louisiana Quality Foundation), and Certified Transportation & Logistics

(American Society of Transport & Logistics). Dr. Rahman is affiliated with ISERC, DSI, AST&L and IEOM.

Mark Calabrese
Senior Instructor
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, FL, USA

Diversity and Inclusion Panel sponsored by Ford Motor Company

4:00 – 6:00 pm, Thursday, June 14, 2022 – Onsite Room 1

Panel Chair



Wilkistar Otieno, Ph.D.

Associate Professor and Chair, Industrial and Manufacturing Engineering
Preparing Engineers and Computer Scientist NSF-STEM Scholarship PI. & WiscAMP Faculty Mentor
University of Wisconsin-Milwaukee, Milwaukee, WI, USA

Wilkistar Otieno is an Associate Professor and Chair of Industrial and Manufacturing Engineering at the University of Wisconsin-Milwaukee. She holds a Doctoral degree in Industrial Engineering and Masters in Statistics degree both from the University of South Florida. She earned a Bachelor's degree in Mechanical and Production Engineering from, Moi University in Eldoret, Kenya. Her research interests include sustainable manufacturing (remanufacturing), sustainable energy (solar power generation systems performance analysis), sustainable water systems reliability and overall systems optimization. She has interests in Science Technology Engineering and Math education, particularly for female and underrepresented minority students. She is a member of IIE, IEEE,

INFORMS, SWE and QSR.

Panel Speakers



Ms. Lourdes Matos-Rivera

Principal Systems Engineer
Northrop Grumman Aeronautics Systems, Orlando, Florida

Lourdes Matos-Rivera is a Systems Safety Engineer for Northrop Grumman Aeronautics Systems Sector, a premier provider of military aircraft, autonomous systems, aerospace structures and next-generation surveillance, strike and commercial solutions in Melbourne, Florida. Lourdes previously served as a Mechanical Design Engineer, and supported projects of ranging from mechanical design, modeling, system testing, manufacturing, and organizational process development. Prior to joining Northrop Grumman, Lourdes was a Ride and Show engineer with Universal Creative, where she provided master planning, creative development of ride products, design, project management, and research and development for various attractions. Lourdes graduated from the University of Central Florida (UCF) in 2016 with a Bachelor of Science in Mechanical Engineering and a Certificate in Engineering Leadership. She is currently pursuing a Master of Science in Engineering Management at UCF. Lourdes is passionate about Diversity, Equity and Inclusion, and has made a big impact in this area through her leadership in the NG Hispanic

Employee Resource Group ADELANTE, where she is the local chapter chair. Additionally, Lourdes holds a key leadership position within the trailblazing Mujeres Initiative, where she is a program developer. Lourdes is a champion for STEM education and outreach. She mentors and coaches middle school, high school, and college students through her involvement in the Great Minds in STEM College Bowl, TRYENGINEERING, and the Brevard County Schools' Innovation Games.



Yazeli Cruz

Medallia Expert Services / Latinx@Medallia Lead
Medallia, Washington, DC, USA

Cruz is the current Latin America Medallia Expert Services Senior Analyst, where she coaches and supports subcontracting partners that roll up to over forty accounts and a hundred Medallia software users. She is also the Latinx@Medallia employee resource group lead (ERG). The Latinx@Medallia is an affinity group for employees of Latin American descent and allies. She obtained her bachelor's and master's in Industrial engineering from the University of Puerto Rico at Mayaguez (UPRM). She started her work in diversity and inclusion in 2009 as part of the Industrial and mechanical engineering student mentor association also in UPRM. In 2012, she joined the Applied Optimization Group led by Prof. Mauricio Cabrera-Rios and Prof. Clara Isaza. She participated in research to unlock information about the origins of certain illnesses such as lung cancer and Alzheimer's Disease. Thanks

to her work in the Applied Optimization Group, she published a paper in the Journal of Alzheimer's Disease titled: "A Selection of Important Genes and Their Correlated Behavior in Alzheimer's Disease." In addition, she was the only student chosen from Puerto Rico in 2013 to be part of INROADS. This non-profit organization creates pathways to careers for ethnically diverse high school and college students across the United States. She participated in co-ops in both Rockwell Aerospace and Amgen. She has won various awards, including INROADS 2014 Golf scholarship, DiscoverE's 2016 New Face of Engineering: College Edition, SACNAS 2016 travel award, and AAAS 2017 Joshua Neimark Travel award recipient. In 2017 she co-founded the grassroots organization called "Copa Solidaria", which aims to help underprivileged people who menstruate. After graduating with her master's in 2018, she became a Technical Analyst for Accenture Federal Services plus service as one of the co-leads of the community outreach committee of the Washington D.C. chapter of Accenture's Hispanic ERG. In 2020, she joined Medallia as a technical senior analyst and liaison between financial services accounts in Latin America. She also became the leader of the Latinx@Medallia ERG. Yazeli continues to service her community by mentoring the next generation of tech employees and supporting Latinx organizations throughout the Americas.

Panel Speaker IV

**Charles W. Davis, Jr., Ph.D.**

Associate Professor
Valencia College
1800 S. Kirkman Road
Orlando, FL 32811

Dr. Charles Winfred Davis Jr., Professor at Valencia College since 2003 teaching various courses in Pre-Engineering, Mathematics courses, Mathematics for Engineering Technology, Quality Assurance and Test Methods, Engineering Management, Communications, and Ethics and Probability and Statistics for Engineering. Over 27 years of extensive experience in both public and private sector consisting of Project Management, Leadership and Quality Assurance. Six Sigma Yellow Belt Certification with American Society of Quality and Dare to Lead Certification based on the research of Dr. Brene Brown. Earned bachelor's degree in design engineering,

Master's degree in Industrial Engineering with a concentration in Engineering Management and a Ph.D. in Industrial Engineering from the University of Central Florida. Dr. Davis has several related professional accomplishments and community involvement which includes Chair Florida Engineering Society (FES) Annual Conference and Florida Professional Engineers in Industry (FPEI), Co-Chair – Florida Engineers in Education, FES Engineering Faculty of the Year (2014, 2015, 2016, 2019 & 2021), FPEI Industry Engineer of the Year (2016), FES Outstanding Service to the Engineering Profession (2021), Technical Director – National Society of Black Engineers (NSBE) Process Improvement Special Interest Group (PI SIG), Members of Tau Beta Pi Honor Society and Golden Key International Honor Society, authored and published 2 papers in Institute of Industrial Systems and Engineers (2018 & 2021), co-authored and published a paper in the Military Metaverse MOSES (2015) and co-authored a paper in the Journal on Systematics, Cybernetics and Informatics (2016).

**Professor Donald M. Reimer**

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

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2. Bangladesh	14. India	26. Oman	38. Taiwan
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6. Colombia	18. Japan	30. Portugal	42. United Arab Emirates
7. Curacao	19. Jordan	31. Puerto Rico	43. United States
8. Ecuador	20. Kuwait	32. Qatar	44. Zimbabwe
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 Dr. Basel Alsayyed, University of Alberta, Edmonton, Canada
 Dr. Kuchkarov Atamurat, Uzbekistan National University, Uzbekistan
 Dr. Faleza Abdul Aziz, Universiti Putra Malaysia, Selangor, Malaysia
 Dr. Amir Azizi, Universiti Malaysia Pahang, Malaysia
 Dr. Bandar A. Alkhayyal, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Kingdom of Saudi Arabia
 Amine Belhadi, Industrial Engineering Research Team, Higher School of Technology, Safi, Cadi Ayyad University, Marrakech, Morocco
 Dr. Behnam Bahrami, Eastern Mediterranean University, Famagusta, Cyprus
 Dr. D. K. Banwet, IIT-Delhi, India
 Dr. Abdelaziz Berrado, The Ecole Mohammadia d'Ingénieurs, Rabat, Morocco
 Dr. Mahdi Bashiri, Shahed University, Iran
 Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
 Dr. Haider Ali Biswas, Khulna University, Bangladesh
 Dr. Miguel Sanz Bobi, Comillas Pontifical University, Spain
 Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia
 Dr. Mohammad Ishak Desa, Universiti Teknologi Malaysia
 Dr. Omar Elmabrouk, Benghazi University, Libya
 Dr. Dinusha Gamage, University of Moratuwa, Sri Lanka
 Dr. Rodrigo Garrido, Universidad Adolfo Ibañez, Chile
 Dr. Vassilis Gerogiannis, Department of Project Management, Greece
 Dr. Jahara bint Ghani, UKM, Malaysia
 Dr. Ravi Gor, St. Kabir Institute of Professional Studies, Ahmedabad, India
 Dr. Kannan Govindan, University of Southern Denmark, Denmark
 Dr. Md. Mamun Habib, Universiti Utara Malaysia
 Dr. Ramy Harik, University of South Carolina, USA
 Dr. Maruf Hasan, University of New South Wales, Australia
 Dr. Ahmed Kadhim Hussein, Babylon University, Iraq
 Dr. Javad Khamisabadi, Islamic Azad University, Tehran, Iran
 Dr. Raja Kothandaraman, Alpha College of Engineering, Chennai, India
 Dr. Brigitte Jaumard, Concordia University, Canada
 Dr. Rashmi Jha, Gitarattan International Business School (GIBS), Affiliated to Guru Gobind Singh Indraprastha University, New Delhi, India
 Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia
 Dr. Francis Leung, City University of Hong Kong, China
 Dr. Boudouda Malik, University of Champagne-Ardenne, France
 Dr. Ilias Mamat, Quest International University Perak, Ipoh, Malaysia
 Dr. Fulufhelo Masithulela, University of South Africa
 Dr. Abderrahmane Mellak, University of Boumerdes, Algeria
 Dr. Yuan Xue Ming, SIMTech: Singapore Institute of Manufacturing Technology, Singapore
 Dr. Ruchi Mishra, Institute of Management, Nirma Univ., Ahmedabad, India
 Dr. Vladimir Modrak, TUKE, Slovakia
 Dr. Norhamidi Muhamad, UKM, Malaysia
 Dr. Michael Mutingi, University of Botswana, Botswana
 Dr. Arun N. Nambiar, California State University – Fresno, USA
 Dr. Cecilia Nembou, Divine Word University, Papua New Guinea
 Dr. Sawat Pararach, Thammasat University, Thailand
 Dr. Eui H. Park, North Carolina A&T State University, USA
 Dr. Md. Mizanur Rahman, Universiti Malaysia Sabah (UMS), Kota Kinabalu, Sabah, Malaysia
 Dr. T. Ramayah, School of Management, Universiti Sains Malaysia
 Dr. Raja Zuraidah Raja Mohd Rasi, Universiti Tun Hussein Onn Malaysia
 Dr. Bhuvnesh Rajamony, University Malaysia Perlis (UniMAP), Malaysia
 Dr. Mohd Abdur Rashid, University Malaysia Perlis (UniMAP), Malaysia
 Dr. Syed Asif Raza, Qatar University, Qatar
 Dr. Nubia Milena Velasco Rodriguez, Universidad de Los Andes, Colombia
 Dr. P. Sanjeev Kumar, Dublin Institute of Technology, Ireland
 Dr. Mahmood Shafiee, Cranfield University, Bedfordshire, United Kingdom
 Dr. Ahm Shamsuzzoha, University of Vaasa, Finland
 Dr. Abdussalam Shibani, Coventry University, UK
 Dr. Sarbjit Singh, National Institute of Technology, Jalandhar, Punjab, India
 Dr. Shahryar Sorooshian, University of Gothenburg, Sweden
 Dr. Jayakanth Srinivasan, MIT Sloan School of Management
 Dr. Gopalan Srinivasan, University of New Brunswick, Canada
 Dr. Zuraidah Sulaiman, Universiti Teknologi Malaysia
 Dr. Balan Sundarakani, University of Wollongong in Dubai, UAE
 Laurent Tchommo, Operations Management, Department of CIS & BSAN, College of Business, James Madison University, VA, USA
 Dr. Murat Caner Testik, Hacettepe University, Ankara, Turkey
 Dr. Theodore B. Trafalis, University of Oklahoma, USA
 Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia
 Dr. Hui-Ming Wee, Chung Yuan Christian University, Taiwan
 Dr. Yong Yin, Yamagata University, Japan
 Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia
 Dr. Suhaiza Hanim Zailani, University Malaya, Malaysia
 Dr. Linda L. Zhang, IESEG School of Management, Lille-Paris, France
 Dr. Ali Mostafaeipour, Associate Professor, Industrial Engineering Department, Yazd University, Yazd, Iran

IEOM Operations Team

- Dr. Taufiq Islam – Operations Manager
 Ahmad Mahir Faysal – Associate Operations Manager
 Professor Don Reimer – Director of Membership and Chapter Development
 Dr. Mohammed Khadem – Program Director
 Dr. Hayder Zghair – Associate Program Director
 Ms. Rocksana Ahmed – Assistant Program Director
 Nabid Salehin – Assistant Program Manager
 Roshna Ahmed Shipa – Assistant Marketing Manager
 Vishesh Mahendrabhai Joshi, MSIE Student, LTU
 Sai Abhijith Medavarapu, MSIE Student, LTU
 Karthik Dhandapani, MSIE Student, LTU

31st IEOM Global Engineering Education

DISTINGUISHED SPEAKERS

June 12, Sunday

Global Engineering Education II

2:00 – 3:45 pm – Room 2

Session Chair: Dr. Affan Badar

Special Session on Higher Education in Technology Management

Dr. M. Affan Badar, PhD, CPEM

Professor and Former Chair

Department of Applied Engineering and Technology Management

Indiana State University, Terre Haute, Indiana, USA

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, India. Dr. Badar has published one edited book, two book chapters and more than 80 articles in refereed journals and proceedings in the areas of quality, reliability and maintenance, lean six sigma, economic analysis, coordinate metrology, health care, energy system design, and supply chain. He is a member of IISE, IEOM, ASEM, and ASSE.

Dr. Kamal Shahrabi

President and Dean of Faculty

RIT Kosovo (A.U.K)

Dr. Kamal Shahrabi is the President and Dean of Faculty in RIT Kosovo (A.U.K). In addition, Dr. Shahrabi is currently the Chair of Board of Directors at Association, Technology, Management and Applied Engineering, ATMAE. Prior to his appointment as the Chair of Board of Directors he has served as a member of the Board of Accreditation, representative of four year institutions at ATMAE. Dr. Shahrabi has worked in higher Education for 36 years. Prior to joining RIT Kosovo, Dr. Shahrabi was Dean of the School of Engineering Technology, Professor of Electrical and Computer Engineering Technology, Director of the Renewable Energy and Sustainability Center and Director of Collegiate Science & Technology Entry Program (STEP/CSTEP) at Farmingdale State College. Before joining Farmingdale State College, Dr. Shahrabi was a Professor, Department Chair and Assistant Chair for 20 years in Kean University. He has published several papers in various areas of Communication, Robot Tracking in Space, and Wireless Communication. Dr. Shahrabi has several years of experience in digital signal processing, space tracking, communication and satellite control systems while doing research at City University of New York for NASA. He has received grants totaling more than \$4.4 million through NSF and the Challenge Grant. His research interests are in the fields of Digital Signal Processing Algorithms, Spread Spectrum, nanotechnology, sustainable energy, and Wireless Communication Systems. He earned his PhD in Electrical Engineering, a Master of Philosophy and a Master of Engineering (Electrical) at CUNY, BS in Electrical Engineering at NJIT.

Dr. Arezou Harraf

Head of the Department of Business Studies

Box Hill College Kuwait, Kuwait

Dr. Harraf is the founder and CEO of Learn & Evolve LLC. In this capacity, she helps organizations use strategy, science, and psychology to address workforce challenges such as low performance, productivity, turnover, and retention issues. With a focus on the future of technology and HR, she consults with organizations on how to improve existing in-house technology platforms to enhance features relating to HR and employee needs. Additionally, Dr. Harraf serves as the Head of the Department of Business Studies at Box Hill College and is a Visiting Assistant Professor at the University of Nevada Las Vegas during the summer terms. She also serves as an academic advisor for several MBA students at Maastricht University. Dr. Harraf has many professional affiliations and is a frequent speaker on effective leadership and diversity and inclusion. An experienced educator, Dr. Arezou Harraf holds a Ph.D. in Technology Management and Human Resource Training and Development from Indiana State University and a Master of Science in Organizational Leadership from Quinnipiac University. She further holds a post-graduate certificate in Artificial Intelligence Leadership from the University of Texas-Austin and is a SHRM Senior Certified Professional (SHRM-SCP). Dr. Harraf is a proud SHRM Certification Prep and HR Essentials course provider, where she utilizes her academic and industry experience in enhancing learners' experiences.

Aixi Zhou, PhD, PE, FSFPE

Chair and Professor, Dept. of Applied Engineering Technology

College of Science and Technology

North Carolina A&T State University, Greensboro, NC, USA

Title: Equipping Technology Management Students with Advantageous Technical Skills

Aixi Zhou is Professor and Chair of the Department of Applied Engineering Technology at North Carolina A&T State University (NCAT). In his role, he is leading the department with a mission to prepare students for success in transforming society through innovation and technology leadership. The department offers B.S. degrees in Applied Engineering Technology and Automotive Engineering Technology, M.S. degree in Technology Management, and Ph.D. degree in Applied Science and Technology (Technology Management concentration). The department has experienced considerable growth under Dr. Zhou's leadership.

Prior to joining NCAT, Dr. Zhou held positions at the University of North Carolina at Charlotte, Virginia Polytechnic Institute and State University (Virginia Tech), École Polytechnique Fédérale de Lausanne (EPFL), and the University of California at San Diego. He earned his B.S. degree in Mechanical Engineering from Shenyang Aerospace University, M.S. degree in Mechanical Engineering from Lanzhou University of Technology, and Ph.D. degree in Engineering Mechanics from Virginia Tech. His research interests and publications are in the areas of fire protection,

materials and structures, manufacturing, and engineering education. He has been the Principal Investigator (PI) or co-PI for over 20 funded research projects. Dr. Zhou is the author or co-author of more than 100 technical publications and the author of textbooks Applied Engineering Experiments and Advanced Engineering Experiments. He is a Fellow of SFPE. Dr. Zhou is a licensed Professional Engineer. He serves as a Commissioner in the Engineering Accreditation Commission at ABET.

Global Engineering Education III

8:00 – 9:45 am – Room 1

Presidential Panel on the Future of IEOM Discipline

Chair: Dr. Abu Masud

Co-Chair: Dr. Hamid Parsaei

Professor Abu Masud, Ph.D., P.E. Professor Emeritus Department of Industrial and Manufacturing Engineering Wichita State University, Kansas, USA	Professor Hamid Parsaei, Ph.D., PE Professor, Department of Industrial and Systems Engineering Interim Director, College of Engineering Accreditation and Assessment Texas A&M University, College Station, Texas, USA	Dr. Waldemar Karwowski Pegasus Professor and Chairman Department of Industrial Engineering and Management Systems University of Central Florida Orlando, Florida, USA
Dr. Shahram Taj Chair and Professor, Department of Data Science & Business Analytics Florida Polytechnic University Lakeland, Florida, USA	Dr. Wilkistar Otieno Associate Professor and Chair Industrial and Manufacturing Engineering Faculty Mentor of Preparing Engineers and Computer Scientist NSF-STEM Scholarship PI. & WiscAMP University of Wisconsin-Milwaukee Milwaukee, WI, USA	Dr. Abdelaziz Berrado Professor and Chair, Department of Industrial Engineering The Ecole Mohammadia d'Ingénieurs (EMI) Rabat, Morocco



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29th Industry Solutions - Distinguished Speakers

Monday, June 13, 2022

Industry Solutions and Industry 4.0: I

June 13, Monday, 8:00 – 9:45 pm, Room 2 (Onsite)

Session Chair: Dr. James Mennie, Florida Polytechnic University

8:00 pm – 8:20 am



Youssif Al-Nashif, Ph.D.
Computer Science
Florida Polytechnic University
Lakeland, Florida, USA

Dr. Youssif B. Al-Nashif has held a joint appointment in the Electrical and Computer Engineering Department and the Computer Science Department since August 2015. He served as the academic program coordinator for the Department of Computer Science from September 2015 to December 2017 and the chair of the department in 2018. He came to Florida Poly from Old Dominion University (Norfolk, Virginia), where he was the founding director of the center for cyber-security education and research. He also served as an assistant professor in the Department of Electrical and Computer Engineering at Old Dominion University. Prior to that, he was an assistant research

professor at the University of Arizona-Tucson for five years. He was site research director for the NSF Center for Cloud and Autonomic Computing (NSF-CAC) at the University of Arizona from 2009-14. His industry experience includes serving as a computer research scientist for AVIRTEK Inc. located in Tucson, Arizona.

8:20 pm – 8:40 am



Dr. James Mennie
FIPR Business Director
Florida Polytechnic University
Lakeland, Florida, USA

Dr. Jim Mennie has been with Florida Poly since 2015 and is an assistant professor of business analytics in the Department of Data Science and Business Analytics. He brings ample experience as a business leader and educator to his role teaching Business Analytics at Florida Poly. To date, he has taught 23 distinct business classes including Engineering and Technology Project Management, Supply Chain Risk Management, Introduction to Operations and Supply Chain Management, Strategic Management, and Entrepreneurship Opportunity Analysis.

In addition to his academic responsibilities, in 2019, Mennie was appointed the business director of the Florida Industrial and Phosphate Research Institute (FIPR Institute) with the expanded purpose of strengthening FIPR's finances and developing and implementing a new strategic plan. The FIPR Institute has been in existence for more than 40 years and is the largest repository of phosphate research in the world. He leads a team of research scientists engaged in phosphate and industrial research. Mennie's research interests focus on resolving long-standing business challenges including establishing a domestic supply chain of rare earth elements (REE's), eliminating environmental liabilities through destacking phosphogypsum (PG), increasing mineral beneficiation, and developing more efficient utilization of fertilizers in agriculture.

Mennie has more than 35 years of business experience. Before relocating to Florida, he owned his own family businesses and worked for large companies in the New York metro area. He has extensive experience in improving a broad range of business operations working with a plethora of Fortune 500 companies.

8:40 am – 9:00 am



Mustafa Ilhan Akbas, Ph.D.
Computer Science Department
Embry-Riddle Aeronautical University
Daytona Beach, Florida, USA

Dr. M. Ilhan Akbas is an Assistant Professor at the Electrical Engineering and Computer Science Department of Embry-Riddle Aeronautical University. He received his PhD degree in Computer Engineering from the University of Central Florida. He has research interests in connected and autonomous cyber-physical systems, internet of things, modeling and simulation. He serves on several editorial boards and program committees of prestigious ACM and IEEE journals and conferences. His research has been funded through grants from National Science of Foundation, Florida Center for Cybersecurity, as well as industry.

Dr. Akbas is the author of more than 50 articles, which have appeared in prestigious venues such as IEEE Transactions, Society of Automotive Engineers (SAE) edge reports and flagship conferences of IEEE and ACM. He serves as an Editor for MDPI Journal of Sensors. The research work of Dr. Akbas on developing novel solutions for the testing and validation of autonomous vehicles has been covered by media, including Spectrum Bay News 9, Tampa Bay Business Journal and News 13. He gave invited talks about this research project at Sao Paulo, Brazil in 2018 and 2019. Dr. Akbas has industry experience in defense industry that started when he was a senior in college. He participated in multinational defense industry projects and worked on the standardization of tactical telecommunication systems. Before joining academia as a professor, he became a Cisco Certified Network Associate and also served as a database analyst at the Institute for Simulation and Training (IST), University of Central Florida. Dr. Akbas served on the faculty of Florida Polytechnic University from 2016 to 2019, where he was one of the leading faculty to found the Advanced Mobility Institute. He taught at every level of computer science/engineering curriculum, served as the accreditation coordinator and participated in the development of two new concentrations "Software Engineering" for computer science department and "Intelligent Mobility" for data science department. Dr. Akbas is a member of IEEE, ACM and Complex Systems Society.

9:00 am – 9:20 am



Ala' J. Alnaser, Ph.D.
Applied Mathematics
Florida Polytechnic University
Lakeland, Florida, USA

Dr. Ala Alnaser is an ASSISTANT PROFESSOR in applied mathematics at Florida Polytechnic University. Before coming to Florida Poly, Dr. Ala' Jamil Alnaser served as an assistant professor of mathematics at Trine University, Indiana, from January 2010 to May 2015 where his duties mainly involved teaching and service. He often utilizes instructional technologies that include MyMathLab, WebAssign, MATLAB and scientific graphing calculators. Alnaser completed his doctoral dissertation in the area of algebraic number theory and developing new methods for finding upper bounds for Waring's number over the rational integers. From 2003 to 2009, he worked as a graduate teaching assistant at Kansas State University, where he taught many courses including College Algebra,

Calculus II and III, Linear Algebra and Applied Matrix Theory. Dr. Alnaser received Robert Andrew and Anne Ewing Smith Excellence in Teaching Award in Arts and Sciences for academic year 2011-12, Hostinsky Outstanding Graduate Teaching Assistant in Academics Award and KSU Presidential Award for Excellence in Undergraduate Teaching nomination. Dr. Alnaser received Ph.D. in Mathematics from Kansas State University, M.S. in Mathematics from Kansas State University and B.S. in Mathematics and Statistics, Jordan University of Science and Technology. He is a member of American Mathematical Society and Advanced Mobility Institute, Florida Poly. Dr. Alnaser serves as a Chair of the text selection committee for mathematics courses, Florida Poly and Chair of the mathematics hiring committee, Florida Poly.

9:20 am – 9:40 am



Amy Augustyniak
Senior Manager, Supply Chain Analytics
SaddleCreek Logistics
Lakeland, Florida, USA

Industry Solutions and Industry 4.0: II

June 13, Monday, 2:00 – 3:45 pm, Room 2 (Onsite)

Session Chair:

2:00 pm – 2:30 pm



Dr. Ahmed Mohamed
Director of Solutions Engineering
Orlando Health, FL, USA

Dr. Ahmed Mohamed is currently a Director of Solutions Engineering at Orlando Health with 25+ years of technical and management experience in Information Technology and Healthcare. Additional experience involved teaching graduate courses at Webster University in Orlando Campus as an adjunct instructor. He received his PhD and MS degree in Industrial Engineering from the University of Central Florida, Department of Industrial Engineering and Management Systems (IEMS). He also earned MS degree from City College of New York in 1994 and his BS degree from Alexandria University, Egypt in 1990, all in Electrical Engineering. He holds several certifications including PMP, CLSSBB, CSM, ITIL V3, and a Graduate Certificate for Quality Assurance. His focus is on healthcare process improvements by utilizing information technology and data analytics.

2:30 pm – 3:00 pm



Foad H Khanli
Director of Quality Assurance, Performance and Business Improvement
Amor Health Services, Inc.
Brownsville, Texas, USA

Risk Assessment Made Easy in Health Care Industry by Applying Lean Six Sigma Methodology – DMAIC

Mr. Hosseinkhanli is Director of Quality Assurance, Performance and Business Improvement Amor Health Services, Inc. in Brownsville Texas USA. He was General Manager of Almanah Trading in Doha Qatar Middle East and responsible for all aspects in creation and implementing of successful growth of new market development and turn-key operation for various products. Mr. Hosseinkhanli was involved with financial negotiation with national and international banking, corporation, private sources and trading organization. Volvo International Development Corporation, Gothenburg Sweden, Marketing Director For The Middle Eastern Countries, UAE, Saudi Arabia, Bahrain, Turkey and Iran. Negotiated and established exclusive franchise agreement and turn- key operation. Did market analysis and feasibility

studies for Volvo International in the Middle Eastern countries and increase annual sales in excess of 55%. Chief Industrial Engineer, United Carr, manufacturer of plastic knobs for Automotive Industries, Knoxville Tennessee USA. His education background is: Master of Business Administration from IMMEDE Management Institute in Lausanne Switzerland majoring in financing. Bachelor of Science in Industrial and System Engineering from University of Rhode Island in Kingston Rhode Island USA. Certified Business Analyst from International Profit Association in Buffalo Grove IL USA. Certified Six Sigma Green and Black Belt from Institute of Industrial Engineers. Extra Curriculum Activity: Senior Member of Institute of Industrial Engineers, Senior Member of ASQ and Senior Member of Swedish Method and Time Measurement Language: Fluent in English, Swedish, German, Turkish, Farsi and some Spanish.

3:00 pm – 3:20 pm



Onur Toker, Ph.D.
Electrical and Computer Engineering
Florida Polytechnic University
Lakeland, Florida, USA

Dr. Onur Toker is an associate professor of electrical and computer engineering at Florida Poly. After completing his doctorate, he worked as a graduate researcher at the Technical University of Eindhoven (The Netherlands), and the University of California (Riverside). Later, he worked at the College of Computer Sciences and Engineering, K.F.U.P.M., K.S.A., and Dept. of Electrical and Electronics Eng., TCFU, Istanbul, Turkey. During this time, he also worked as a consultant for Teknobil, Vatan Gida, and ACC Makina, all in Istanbul, Turkey. Prior to joining Florida Poly, he worked for the LiDAR company, Quanergy, (Sunnyvale, California), and then later for the augmented reality company, DAQRI, (Sunnyvale and Pasadena, California). Later he also worked for a stealth mode startup for a

driver behavior analysis project. Toker is actively involved in teaching and research. He has published about 100 technical papers, supervised or co-supervised several graduate students, and was PI or co-PI for several funded projects.

3:20 pm – 3:40 pm



Arman Sargolzaei, Ph.D.
Mechanical Engineering, Resilient, Autonomous, Networked Control Systems
Tennessee Tech University
Cookeville, Tennessee, USA

Dr. Arman Sargolzaei joined the ME Department in Fall 2020 as an Assistant Professor. His expertise is in applying linear and nonlinear control methods, machine learning, and artificial intelligence to the field of Networked Control Systems. His mission is to enhance the quality of life for people, with assuring the safety, security, and privacy concerns through extensive collaboration among multi-disciplinary fields. His research on the security of Networked Control Systems (NCSs) and resiliency of Multi-agent systems, particularly his doctoral dissertations entitled "Control of Multi-Agent Systems Under Cyberattack" and "Time-Delay Switch Attack on Networked Control Systems, Effects, and Countermeasures," combined with the knowledge of control theory, system identification, mathematics, and statistics carried significant practical implications in better understanding the pathways of faults, failure, and attack detection and compensation for NCSs. He followed his vision in securing NCSs by leading several funded projects. He was recognized with the honor of the "Faculty Research Excellence Award" for two consecutive years and served as the director of the Advanced Mobility Institute (AMI) and an Assistant Professor of Electrical Engineering at Florida Polytechnic University before coming to Tech. He has three years of industrial experience as a system development engineer and supervisor of the internship program at PLC International Inc., a multinational corporation specializing in telecommunications for electrical substations and smart grid applications. In this position, he was a lead engineer for a product called Rugged Smart Machine-to-Machine platform, which received the best of show innovation award at ITEXPO for two consecutive years. He believes in the importance of interdisciplinary collaboration as the key to success. He served as a chair for several university committees such as program assessment committees and faculty hiring committees. He was also the program coordinator for the control system concentration at FPU. Sargolzaei's peer-reviewed research on the theory and applications of networked control systems, unmanned aerial vehicles, and autonomous vehicles has been published in more than 60 articles [H index = 19]. He was primarily involved in national and international fund-raising events for improving the educational and training on the security of control systems.

Industry Solutions and Industry 4.0 – III

June 13, Monday, 4:00 – 5:45 pm, Room 2 (Onsite)

Session Chair: Mr. Aaron Rubel, Airbus Americas, Inc., Mobile, Alabama, USA

4:00 pm – 4:25 pm



Mike Turner
Global Manager for Design for Six Sigma (DFSS) in Operational Excellence (OpEx)
General Motors Company
Warren, Michigan
USA

Title of Presentation: Start-Up of a Six Sigma Program: People, Process and Predicaments

Mike Turner is a certified Design for Six Sigma (DFSS) Master Black Belt and Global Manager in Operational Excellence (OpEx). He holds a BS and MS in Engineering and BA in English Literature. Mike has supported and led start-ups of DFSS and OpEx programs for the last 13 years at large, multinational companies. He currently is responsible for the global DFSS program at General Motors, LLC. His team is responsible for the DFSS strategy, training, coaching and mentoring of 30,000 employees.

4:25 pm – 4:50 pm

**Akashita Sareen**

Engineer in the Operations Planning and Engineering department
FedEx Express, United States

Topic Description: E-commerce is expected to grow at an average of 47% in the next five years globally. This calls for optimizing last mile delivery operations from a sortation hub to destination using spatial analysis and operational productivity while also ensuring the least impact on the environment. Akashita Sareen is an Engineer in the Operations Planning and Engineering department at FedEx Express, the world's largest cargo airline and one of FedEx Corporation's subsidiaries. While at FedEx, she has contributed to a diverse range of projects related to last mile delivery, digital transformation, spatial data engineering, automation and more. She is directly responsible for the planning and development of multiple sortation facilities to meet customer needs in the growing logistics and supply chain industry. She holds a Bachelor of Science in Aerospace Engineering with a minor in Sustainability from Florida Institute of Technology and a Master of Science in Engineering Management from Marshall University. She also holds a Lean Six Sigma Green Belt certification.

4:50 pm – 5:15 pm

**Thomas Jones**

Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

Thomas Jones is a PhD candidate at UCF in the department of Industrial and Systems Engineering, and he holds B.S. and M.S. degrees in Industrial Engineering from Wichita State University. His research focus is on Quality 4.0 in manufacturing environments with an interest in how company culture and quality systems influence digital transformations.

5:15 pm – 5:40 pm

**Aaron Rubel, M.S.E.M.**

Head of Aircraft Maintenance Programs Development
Intellectual Property Focal Point
Airbus Americas, Inc.
Mobile, Alabama Engineering Center
Mobile, AL 36615, USA

Aaron Rubel is Head of Aircraft Maintenance Programs Development at the Mobile, Alabama Engineering Center of Airbus Americas. He is a certified Lean Six Sigma Black Belt and has earned patented inventions. Aaron has over 30 years of combined professional aerospace and automotive experience in areas of engineering, design, risk analysis, problem solving, manufacturing, and leadership. Mr. Rubel earned a M.S. in Engineering Management from the University of Tennessee at Chattanooga (UTC), a B.S. in Engineering Technology from Lawrence Technological University (LTU), and an Associate of Applied Science from Macomb Community College. Mr. Rubel's honors include the Dr. Ron Cox Graduate Engineering Management Student Award given by UTC, and he was inducted into the LTU College of Engineering Hall of Fame. Service in the community is important to Aaron. He served on a Mobile (Alabama) Area Education Foundation strategic planning committee for science, technology, engineering, and mathematics (STEM), and for three years was the strategic planning committee chair and voting member on a local school board.

8th North American Industrial Engineering and Operations Management Conference

Houston, Texas, June 13-15, 2023

Host Institute

Texas A&M Engineering Experiment Station Institute of Manufacturing Systems
(TEES-IMS)

Conference Chair

Dr. Satish Bukkapatnam

Rockwell International Professor and
Director, TEES Institute for Manufacturing Systems
Texas Engineering Experiment Station
College Station, Texas, USA

9th IEOM Global Supply Chain and Logistics

DISTINGUISHED SPEAKERS

Global Supply Chain and Logistics - I

8:00 – 9:45 am, Tuesday, July, 14, 2021 – Room 2 (onsite)

Session Chair: Dr. Ahad Ali

8:00 - 8:30 am (Tuesday, June 14)



Dr. Ahad Ali

Associate Professor

Director of Bachelor of Science in Industrial Engineering

Director, Master of Science in Industrial Engineering

Director of Smart Manufacturing and Lean Systems Research Group

A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering

Lawrence Technological University

Southfield, Michigan, USA

Dr. Ahad Ali is an Associate Professor and Director of Bachelor of Science in Industrial Engineering and Master of Science in Industrial Engineering in the A. Leon Linton Department of Mechanical Engineering at the Lawrence Technological University, Michigan. Dr. Ali is the Director of Smart Manufacturing and Lean Systems Research Group. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in Industrial Engineering from University of Wisconsin-Milwaukee. Dr. Ali is the Executive Director of IEOM Society and Conference Chair of the Sixth International Conference on Industrial Engineering and operations Management, Kuala Lumpur 2016. He advised six doctorate students in Doctor of Engineering in Manufacturing Systems. Dr. Ali has published journal and conference papers. He was past President of IIE Lean Division. Dr Ali has done research projects with Chrysler, Ford, DTE Energy, Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include quality, reliability, six sigma, manufacturing, simulation, optimization, scheduling, maintenance, e-manufacturing, lean, CAE and GD&T and. He is a member of ASEE, IEEE, IEOM, INFORMS, and SME.

Global Supply Chain and Logistics – II Panel

2:00 – 3:45 pm, Tuesday, July, 14, 2021 – Room 2 (onsite)

Panel Chair

Alper Senol

Professor- Supply Chain Management- Miami Dade College

Process Engineering Manager

Ph.D. candidate – Industrial Engineering and Management Systems

University of Central Florida

Orlando, Florida, USA

Panel Speakers

Dennis Tribby – Director of Portfolio Solutions Siemens Digital Industries Software Florida, USA	Mohammad Anwar Rahman, Ph.D. Associate Professor, Manufacturing and Construction Management Central Connecticut State University New Britain, CT, USA	Professor Don Reimer Director of Membership and Chapter Development – IEOM Society Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering, Lawrence Technological University, Southfield, Michigan, USA
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Global Supply Chain and Logistics - III

4:00 – 5:45 pm, Tuesday, July, 14, 2021 – Room 2 (onsite)

Session Chair: Alper Senol

4:00 – 4:20 pm, Tuesday, June 14



Alper Senol
Professor- Supply Chain Management
Miami Dade College, Miami, FL, USA
Process Engineering Manager

Alper Senol is an experienced process engineering manager with more than 12 years of strong working knowledge and experience in the transportation, supply chain & logistics, and manufacturing industries. Skilled in Project Management, Lean manufacturing / DMAIC, Operations Management, Quality Management, and Continuous Improvement. He is working towards a Ph.D. degree in Industrial Engineering and Management Systems at the University of Central Florida with the research subject of “Impact of Industry 4.0 on Global Supply Chain Management”. He received his Master of Science in Engineering Management and Systems Engineering from the Old Dominion University and his Bachelor of Science in Information Management System from Strayer University.

Also, he is Lean Supply Chain Management and Lean Six Sigma Green Belt Certified. When Alper was in university, he was the Student President of the Industrial Engineering department and received “The student of the month” award.

Alper started his career as an Industrial Engineer at M&G Electronics in 2010. He was responsible for lean initiatives of the company along with estimating production times, staffing requirements, developing weekly labor and production forecasting for production planning, designing workstation, workflows, and assembly lines, preparing manufacturing documentation (SOP) based on ISO standards and providing necessary training for production employees and operators.

Alper joined Perry Ellis International in 2013 as an industrial engineer. In this role, he has involved various sides of the supply chain management and warehouse management systems. He has executed two major WMS projects during his employment and received an outstanding achievement award representing the engineering department for executing an overseas WMS project successfully in 2014. His expertise includes implementing strategic initiatives and projects; overseeing WMS and WLM processes; and leading diverse staff to maximize productivity, efficiency, and overall business performance. Through his experience, he has become adept at ensuring alignment with organizational goals and requirements while facilitating streamlined transportation, logistics, and supply chain operations and building strategic relationships with internal and external stakeholders.

Alper worked as a process engineering manager at the Bel USA in Miami. He oversees and manages production, quality, supply chain, and logistics operations including need assessment, system upgrade, new process flow, and layout design, inventory management, performance metrics (KPIs), staff training, and project execution. He also supports logistics and supply chain operations while identifying and pursuing strategic opportunities to improve operational performance in terms of cost, time, quality for internal and external processes. He secured close to 1 million dollars in annual savings by implementing a freight & packaging optimization project and a quality improvement project that resulted in reducing the redo rate that was caused by production defects and breakage.

He is currently a full-time professor in Supply Chain Management department at Miami Dade College (MDC) where he teaches all subject related and engineering courses since 2020. Alper is working to build a Supply Chain Management laboratory in Miami Dade College West Campus's makerspace with his students to provide hand-on classroom experience. Laboratory will provide end-to-end supply chain solutions within the concentration of Warehouse Management Systems that includes robotics, automation and AI. He is an advisory committee member of the Supply Chain Management board at MDC. He also helped to build Data Analytics, Procurement and Project Management concentrations for the Supply Chain Management program and concluded with the state approval.

4:20 – 4:40 pm, Tuesday, June 14



Thomas Jones
Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

Thomas Jones is a PhD candidate at UCF in the department of Industrial and Systems Engineering, and he holds B.S. and M.S. degrees in Industrial Engineering from Wichita State University. His research focus is on Quality 4.0 in manufacturing environments with an interest in how company culture and quality systems influence digital transformations.

4:40 – 5:00 pm, Tuesday, June 14



Cintia Zuccon Buffon
Industrial Engineer

Cintia Zuccon Buffon, MBA, MSIE, is an industrial engineer with 10 years of experience in the industry. She is currently pursuing her PhD in Industrial Engineering at University of Central Florida while working full-time as a Quality Engineer at Ocean Insight. Her research focuses on analyzing the voice of the customer (VOC) using artificial intelligence techniques in the Quality 4.0 era. Prior to her current position, she worked for large companies including GE Aviation, Dentsply Sirona, ZEISS and BASF. Besides industry work, she also has experience conducting research in the artificial intelligence field focused on using Natural Language Processing techniques and artificial neural networks to analyze and develop tools to estimate the volatility of financial assets in the stock market.

Parallel Sessions

All Times are in USA ET (Orlando Time)

Saturday, June 11, 2022 (Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 4	Virtual Room 5	Virtual Room 6	Virtual Room 7
6:00 – 7:45 am	Undergrad Research Competition	Graduate Paper Competition	High School Competition	Business Management	Logistics	PM
8:00 – 9:45 am	Undergraduate Paper Competition	Graduate Paper Competition	MS Thesis Competition	Business Management	SCM	TM
10:00 – 11:45 am	Undergraduate Paper Competition	PhD Dissertation Competition	HF & LSS Competition	Competitions	SCM	Innovation
12:00 – 1:45 pm	Undergraduate Paper Competition	Covid Competition	Artificial Intelligence	Sustainability	Six Sigma	
2:00 – 3:45 pm	Undergraduate Paper Competition	High School Competition	Industry 4.0	OR	SCM	
4:00 – 5:45 pm	Undergraduate Paper Competition					

Sunday, June 12, 2022 (Onsite at Holiday Inn & Suites Across from Universal Orlando)

	Ballroom - Room 1 (onsite/virtual)	Room 2 (onsite/virtual)	Room 3 (onsite/virtual)	Virtual Room 4	Virtual Room 5	Virtual Room 6	Virtual Room 7
6:00	HF (Virtual)	Data Analytics (Virtual)	BM (Virtual)	BM	Sustainability	OM	Lean & Operations
8:00	Plenary I	GEE I	Competitions (Onsite)	HF and Healthcare	BM	OM	Case Studies
9:30	Morning Networking Coffee Break – Foyer Area of Holiday Inn & Suites Across from Universal Orlando						
10:00	Welcome Address from Host - Ballroom (Room 1)						
10:20	Keynote I (Opening Keynote): Dr. Randy Avent, President, Florida Polytechnic University, Florida, USA - Ballroom (Room 1)						
11:00	Keynote II: Dr. Kay M. Stanney, CEO and Founder, Design Interactive, Inc. and Member, National Academy of Engineering (NAE), Orlando, Florida, USA - Room 1						
11:40	Keynote III: Professor Alex Frino, Deputy Vice-Chancellor (Global Strategy), University of Wollongong, Wollongong, NSW, Australia - Ballroom (Room 1)						
12:20	Keynote IV: Ms. Jessica Ascough, Chief Software Architect, AI Solutions Architect, Data Scientist, L3Harris Technologies, Florida, USA - Ballroom (Room 1)						
1:00	Lunch Break – Lunch Provided of Holiday Inn & Suites Across from Universal Orlando						
2:00	Lean Six Sigma Panel	GEE II: TM Higher Edu	Onsite competitions	Engineering Education			
3:45	Afternoon Networking Coffee Break – Foyer Area						
4:00	Presidential Panel on the Future of the IEOM Discipline – Room 1						

Monday, June 13, 2022 (Onsite at Holiday Inn & Suites Across from Universal Orlando)

	Ballroom - Room 1 (onsite/virtual)	Room 2 (onsite/virtual)	Room 3 (onsite/virtual)	Virtual Room 4	Virtual Room 5	Virtual Room 6	Virtual Room 7
6:00	Innovation	Entrepreneurship	Case Studies (virtual)	Data Analytics	Business Management	Data Analytics	BM
8:00	Plenary II	Industry Solutions I	OM (Onsite)	e-Business	Case Studies	OR	
9:30	Morning Networking Coffee Break – Foyer Area of Holiday Inn & Suites Across from Universal Orlando						
10:00	Conference Chair Remarks – Ballroom (Room 1)						
10:20	Keynote V: Dr. Regiane Relva Romano, Professor and Head of Smart Cities at Facens, Advisor to Brazil's Ministry of Science, Technology, Innovation and Communication, Brazil – Ballroom (Room 1)						
11:00	Keynote VI: H.D. Polumbo Jr., Maj Gen USAF (retired), Founding Partner and Senior Consultant, Two Blue Aces LLC, Winter Haven, Florida, USA – Room 1						
11:40	Keynote VII: Dr. Duane Davis, Chief Physician Executive AdventHealth Institutes, Orlando, Florida, USA – Ballroom (Room 1)						
12:20	Keynote VIII: Ms. Donna Slyster, Senior Vice President and CIO, Saddle Creek Logistics Services, Florida, United States – Ballroom (Room 1)						
1:00	Lunch Break – Lunch Provided of Holiday Inn & Suites Across from Universal Orlando – Ballroom (Room 1)						
2:00	WIIA Panel	Industry Solutions II	OR (Onsite)	Data Analytics	OM		
3:45	Afternoon Networking Coffee Break – Foyer Area						
4:00	Industry 4.0 Panel	Industry Solutions III					

Tuesday, June 14, 2022 (Onsite at Holiday Inn & Suites Across from Universal Orlando)

	Ballroom - Room 1 (onsite/virtual)	Room 2 (onsite/virtual)	Room 3 (onsite/online)	Virtual Room 4	Virtual Room 5	Virtual Room 6
6:00	Entrepreneurship (virtual)	e-Business (virtual)	Smart Systems (virtual)	IoT	Case studies	EM
8:00	Plenary III (onsite)	GSCM (onsite)	Simulation (Onsite)	Smart Mobility	Case Studie	Innovation
9:30	Morning Networking Coffee Break – Foyer Area of Holiday Inn & Suites Across from Universal Orlando					
10:00	Conference Chair Remarks – Ballroom (Room 1)					
10:20	Keynote IX: Dr. Mary Vollaro, Professor and Chair, Department of Mechanical Engineering and Environmental Engineering, Florida Polytechnic University – Room 1					
11:00	Keynote X: Dr. Mansoor Mollaghasemi, Associate Professor, Industrial Engineering & Management Systems Department, University of Central Florida – Room 1					
11:40	Keynote XI: Dr. Ahmed Kamel, Senior Key Expert, Additive Manufacturing and Innovation, Siemens Energy, Orlando, Florida, United States – Ballroom (Room 1)					
12:20	Keynote XII: Dr. Timothy Kotnour, Lockheed Martin St. Laurent Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA – Ballroom (Room 1)					
1:00	Lunch Break – Lunch Provided of Holiday Inn & Suites Across from Universal Orlando					
2:00	GSCM Panel (Onsite)	Plenary IV (onsite)	Engineering Education (onsite)	OM		
3:45	Afternoon Networking Coffee Break – Foyer Area					
4:00	Diversity and Inclusion Panel sponsored by Ford Motor Company (onsite)	GSCM (onsite)	Case Studies (onsite)	Parallel Session	Parallel Session	
7:00 – 10:00 pm, June 14 – Conference Awards Dinner						

June 11 (Saturday) - Session: 6:00 – 7:45 am

5:00 – 7:45 am, SATURDAY

Undergraduate Research Competition

Virtual Room 1

Judging Committee Chair: Dr. Mizanur Rahman, IEOM Australia Operations Director, Sydney, Australia

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 344 Gen Z's Attitude to Cultural Appropriation: a Case Study of The Appointment of Pon Papua's Ambassador

Riza Yuli Astuti and Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 453 A Correlation Study of Perceived Stress and Performance of Internship of Graduating Students

Wendell Gil L. Atencia, Rinzel Janelle M. Co, Lara Camille V. Gicale, Richard D. Lumokso, Jessica I. Regondola, Coleen Charlotte O. Simon and Lemuel Edwin L. Tan, Department of Industrial Engineering – College of Engineering and Architecture, Technological Institute of the Philippines Cubao, Quezon City, Philippines

ID 192 Comparative Analysis of the Correlation of Perceived Stress and Creative Thinking Capacity of Architecture and Industrial Engineering Students

Alison E. Altares, Avery S. Capanzana, Gabriel Oliver B. Comia, Arwin Earl R. Denila, Patricia Alyssa D. La Madrid and Jason Albert A. Paragas, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City Cubao, Quezon City, Philippines

ID 71 Assessment of Behavioral Impacts and Socio-Economic Status stand of Blockchain Games to Undergraduate Students in Metro Manila

Alfred Joshua S. Aquino, John Roy D. Marucot, Edlyn D. Pangilinan, Jolly Ann J. Villaflores and Janina Elyse A. Reyes, Industrial Engineering Department Technological Institute of the Philippines – Manila, Philippines

ID 513 Comparative Analysis: Assessing the Technical Competence of the Affected Graduating Industrial and Mechanical Engineering Students During the COVID-19 Crisis

Jan Anthony Magalong, Rey Stephen Bersalona, Miguel Boqueo, Kenneth Jalapadan, Joel Magundayao and Christian Martisano, Department of Industrial Engineering, Technological Institute of the Philippines Cubao, Quezon City, Philippines

ID 473 Comparing backpropagation-based neural networks and deep learning to predict the NASA Task Load Index

Gabriel Perez, Juanita Gonzalez and Dr. Luis Carlos Rabelo, Department of Industrial Engineering & Management Systems, University of Central Florida, Florida

ID 154 Integrating Virtual Reality and Motion Capture in Unity 3D for the Training of Children with Cerebral Palsy

Xiaoxu Ji, Department of Biomedical, Industrial and Systems Engineering, Gannon University, Erie, USA
Kristen Snarski, Department of Physical Therapy, Gannon University, Erie, USA
Arnon Ashkenazi, Ethan Swierski and Davide Piovesan, Member, IEEE, Department of Biomedical, Industrial and Systems Engineering, Gannon University, Erie, USA

ID 534 Enhancing Personal Decision Making During and After a Hurricane to Preserve Wellness + The Creation of a System of Information for First Responders

Oscar Gonzalez, Applied Optimization Group @ UPRM, Puerto Rico, USA

ID 567 Redesigning an Inclusive Digital Contact Tracing Service Systems: Product-Focus and Implementation Phase of Design Thinking Approach

Javy Denver K. Chan, Wilwyn G. Mendoza and Kim Lyn B. Sandoval, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines
Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines
Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, Philippines

ID 601 Multi-Criteria Stochastic Inventory Classification, Optimization & Simulation of an E-commerce Site by Integrating Support Vector Machine & Genetic Algorithm

Ferdous Sarwar, Pritam Deb, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

ID 675 Optimization of Drilling Parameters to Achieve Maximum Circularity on AISI 316 Using Topsis Method

Ch. Muni Sudheer, A. Vijay Kumar, D. Dhanunjay and D. Sivaji, UG Student, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India
Ch. Siva Ramakrishna, Associate Professor, Dept. of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

6:00 – 8:00 am, SATURDAY

Graduate Paper Competition

Virtual Room 2

Judging Committee Chair: Dr. Doga Demirel, Florida Polytechnic University, Florida, USA

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 67 COVID-19 Vaccination Intention in Indonesia: A Comprehensive Conceptual Model

Tri Widiandi and Romadhani Ardi, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
Himma Firdaus, National Research and Innovation Agency of the Republic of Indonesia, Tangerang Selatan, Indonesia

ID 68 Organizational Excellence and Agility: Correlation Model

Karam Al-Assaf, Master of Science in Engineering Management, Rochester Institute of Technology, Dubai, UAE

Dr Slim Saïdi, Associate Professor of Industrial Engineering, Rochester Institute of Technology, Dubai, UAE

ID 210 Contributions to MPPT control for an autonomous photovoltaic system based on artificial neural network and genetic algorithm
 Chtouki Hssane, Doctor in electrical engineering, Department of Electrical Engineering, Mohammed V University in Rabat, Morocco
 Wira Patrice, IRIMAS, Institut de Recherche en Informatique, Mathématiques, Automatique et Signal, Haute Alsace University, Mulhouse, France.
 Zazi Malika, Professor, Department of Electrical Engineering, Mohammed V University in Rabat, Morocco

ID 289 Understanding the linkage and driving factors to premature closure of microbusinesses: A case study in Cebu, Philippines
 Eunice Cristyl D. del Pilar, Industrial and Systems Engineering Department, De La Salle University, Malate, Manila, Philippines

ID 435 Big Data for Village-level Smart Farms
 Eric De Vera Reynoso, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
 Grace Lorraine Intal, School of Information Technology, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 494 Development of Radiation Protective Mobile Case
 Md Mamunur Rashid, Md Reshawati Hossain, Mosnabi Mohosin Aditya, Arnob Chowdhury Mithun, Mohammad Shoaib, Sazid Hossain Niloy, Sourav Kumar Ghosh, Department of Industrial & Production Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh

6:00 – 7:45 am, SATURDAY

High School STEM Project Competition

Virtual Room 4

Judging Committee Chair: Prof. Don Reimer, IEOM Society

Zoom Host: Amar Shabir, Florida Polytechnic University, Lakeland, Florida, USA

HIGH SCHOOL STEM PROJECT COMPETITION

ID 249 A Study on Hacking Attacks and Vulnerabilities in Self-Driving Car with Artificial Intelligence
 Se In Jung, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

ID 250 Trend Analysis of Autonomous Vehicles Using Artificial Intelligence
 Lee Ji Yun, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

ID 251 Artificial Intelligence Fusion and Applied Research in the Medical Field Side
 Kim See You, Shin Dong Ho, Ph.D., PAUL MATH SCHOOL, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

INNOVATIVE IDEA COMPETITION

ID 8 A Design, Verification, and Testing (DVT) Protocol for a Detection System of Acoustic Signals
 Sarah Ali, Clinical Assistant Professor, Department of Engineering, Loyola University Chicago, Chicago, Illinois, USA

ID 271 Modificación de harina de trigo incorporando cáscara de granada como aditivo alimentario para pasteles y pastas
 Sergio Patricio Ortiz Onofre, María Alejandra Islas, Álvaro Makowsky Rico, Fernanda Silva Vázquez, Marcelo Gerardo González y González and Nora Guerrero López, Estudiante, Ingeniería Industrial y de Sistemas, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico Southfield, MI, USA

6:00 – 7:45 am, SATURDAY

Business Management

Virtual Room 5

Session Chair: Dr. Shwetha M Krishna, Assistant Professor, Business School, Vellore Institute of Technology, Chennai, India

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 270 Intrinsic, Extrinsic Rewards and Job Satisfaction: Role of Job Performance and Creative Performance
 Cynthia Manimegalai, Research Scholar, Business School, Vellore Institute of Technology, Chennai, India
 Dr. Shwetha M Krishna, Assistant Professor, Business School, Vellore Institute of Technology, Chennai, India

ID 299 Comparison of Consumer Loyalty Between Shopee and Tokopedia: A Systematic Literature Review
 Haryadi Sarjono, Danang Prihandoko, Malvin Jevon, Roselyn Lauwsen, Gabriela Clara, Hadi Sasana Putra, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta Barat, Indonesia

ID 301 Empowering Employee Performance Against the COVID-19 Pandemic in Human Resource Management in Industry
 Haryadi Sarjono and Hendry Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
 Ricky Ramadhan Putra, Figo Mohammad Thamyiz, Kennard Lorenzo Lekatompessy and Jason Gorga Simanjuntak, BINUS Business School Undergraduate, Bina Nusantara University, Marga Mulya, Kec. North Bekasi, Bekasi City, West Java, Indonesia

ID 302 The Influence of Brand Prestige, Service Quality, Food Quality and Perceived Value on Customer Satisfaction in The Fast-Food Industry
 Haryadi Sarjono, Vinson Georvano and Hendry Hartono, BINUS Business School Undergraduate Binus University, Jakarta, Indonesia

ID 304 Systematic Literature Review, Comparison of Interest in Buying Food on Shopee App and Gojek App in Century Pandemic
 Haryadi Sarjono and Hendry Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
 Desy Ratnasari, Princess Widiyanti, Hana Utami Zahra and Salsabila Tri Rahmah, BINUS Business School Undergraduate, Bina Nusantara University, Marga Mulya, Kec. North Bekasi, Bkasi City, West Java, Indonesia

ID 308 Systematic Literature Review: Employee Productivity in E-Commerce in Indonesia Over Covid-19 pandemic
 Haryadi Sarjono, Danang Prihandoko, Alfina Fauziah Pradhini Hadi, Calvin, Muhammad Fakhri Haikal and Sherly Angelika, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta Barat, Indonesian

ID 332 Socio Economic Factors and Justice. Colombia 2010-2015

Mariluz Osorio Quiceno and Wilson Alexander Pinzón Rueda, Universidad Distrital "Francisco José de Caldas", Bogotá - Colombia
 Edgar Olmedo Cruz Micán, Administración de Empresas AEMD, Corporación Universitaria Minuto de Dios, Bogotá, Colombia

6:00 – 7:45 am, SATURDAY**Logistics****Virtual Room 6**

Session Chair: Ali Elkamel, Department of Chemical Engineering, Faculty of Engineering, University of Waterloo, Waterloo, Ontario, Canada
 Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 7 Hybrid Party Logistics, Hybrid Supply Network (Case Study: Iran Khodro Automotive Company)

Dr. Javad Khamisabadi, PhD, Department of Industrial Engineering & Management, Islamic Azad University, Tehran, Iran
 Mohammad Rouhina, PhD Candidate, Industrial Engineering, University of Science and Technology, Tehran, Iran

ID 11 Hybrid Party Logistics, Hybrid Supply Network (Case Study: Iran Khodro Automotive Company)

Dr. Javad Khamisabadi, PhD, Department of Industrial Engineering & Management, Islamic Azad University, Tehran, Iran
 Mohammad Rouhina, PhD Candidate, Industrial Engineering, University of Science and Technology, Tehran, Iran

ID 275 Optimization of Last Mile Hub Location Determination for Package Delivery using Facility Location Problem

Muhammad I. Hazami, Zulkarnain Zulkarnain, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 312 Optimization of Lubricant Distribution with Alternative Coordinates and Number of Warehouses Considering Truck Capacity and Time Windows

Taufik Rizkiandi, Teuku Yuri M. Zagloel, Andri Dwi Setiawan, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 336 Implementation of logistics balancing and engineering with the novel approach (Case Study: Tondar 90 assembly shop – Iran Khodro Co)

Javad Khamisabadi, Department of Industrial Management, Faculty of Management, Islamic Azad University, Tehran, Iran

ID 352 Practical Cases of Locating Regional Logistics Hubs: A Systematic Literature Review

Malik Almakki, Master Student, Department Industrial Engineering, King Saud University, Riyadh, Saudi Arabia
 Mohammed Alkahtani, Associate Professor in Industrial Engineering Department, and Vice-Dean of Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia

ID 377 Troubleshooting the Deodoriser Unit in a Palm Oil Refinery

Intan Suhairi Salleh, Nur Syuhada Ali, Khairiyah Mohd-Yusof, Nurul Sulaiha Sulaiman and Hishamuddin Jamaluddin, Faculty of Engineering, Universiti Teknologi Malaysia, Malaysia
 Farzad Hourfar and Ali Elkamel, Department of Chemical Engineering, Faculty of Engineering, University of Waterloo, Waterloo, Ontario, Canada
 Gholamreza Zahedi, Ozone Solutions Inc., Hull, Iowa, United States

6:00 – 7:45 am, SATURDAY**Project Management****Virtual Room 7**

Session Chair: Hwi-Chie Ho, Selvi, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 267 Optimization of Assembly Process in the Production Line to Increase Productivity with the Line Balancing Method in the Indonesian Automotive sector

Andy Kresna, M. Dachyar and Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 205 Combinatorial Optimization of Various Placement Machines for PCB Assembly Lines

James C. Chen and Yu-Jie Chang, Department of Industrial Engineering and Engineering Management, National Tsing Hua University, Hsinchu, Taiwan
 Tzu-Li Chen, Associate Professor, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan

ID 496 Aggregate Planning to Minimize Production Cost Case Study: Automotive Spare Part Company

Haifidz Akbar Halim and Komarudin, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, Depok, Indonesia

ID 225 Development of Risk-Based Standard Operating Procedure for the Design And Engineering Phase Of ATC Tower And Supporting Facilities Construction Project To Enhance Effectivity And Efficiency

Sebastian Anthony Toti and Yusuf Latief, Department of Civil Engineering, Engineering Faculty, University of Indonesia, Salemba, Jakarta, Indonesia

ID 230 Development of Cost Planning Standard for Mechanical and Electrical Work on Stadium Main Building Area using Design and Build Contract to Improve Cost Accuracy

Novan Salim, Anggoro Putro and Yusuf Latief, Department of Civil & Environment Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 268 A Conceptual Framework for Knowledge Management of Integrated Design and Construction Phase Audit Process on Infrastructure Project Based on Risk, Using WBS, BIM and Web to Enhance Construction Safety Performance

Danang Budi Nugroho and Yusuf Latief, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, Jawa Barat, Indonesia

ID 436 An Application of Critical Chain and Lean Project Management to Improve Project Efficiency: A Case Study of Construction Project in Indonesia

Hwi-Chie Ho, Selvi, Ricky Darmawan, Gladysa Valerie, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia
 A.A.N. Perwira Redi, BINUS Graduate Program - Master of Industrial Engineering, Bina Nusantara University, Jakarta, Indonesia
 Khristian Edi Nugroho Soebandrija, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

June 11 (Saturday) - Session: 8:00 – 9:45 am**8:00 – 9:45 am, SATURDAY****Undergraduate Paper Competition****Virtual Room 1**

Judging Committee Chair: Dr. Reinaldo Sanchez-Arias, Department of Data Science and Business Analytics, Florida Polytechnic University, USA
 Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 165 System Analysis and Design of Hotel Information System using Design Thinking Methodology

Maria Shaina A. Apolinar, Michael Matthew Kristofer B. Regala, Janelle Anne I. Santiago and Grace Lorraine D. Intal, School of Information Technology, Mapua University, Metro Manila, Philippines

ID 184 System Analysis and Design of Patient Information System Using Design Thinking Methodology

Ma. Bernadeth M. Oliverio, Devon Earl T. Panes, Trinah Mae C. Vinluan and Grace Lorraine D. Intal, School of Information Technology, Mapua University, Philippines

ID 294 The Analysis of Productivity by Using Objective Matrix (OMAX) Methodology

Restu Maha Dewi and Tika Endah Lestari, Department of Industrial Engineering, Faculty of Engineering and Technology, Sampoerna University South Jakarta, Indonesia

ID 295 The Implementation of Overall Equipment Effectiveness (OEE) Methodology to Analyze Productivity of Sugar Factory

Siwi Mauliddia Handayani and Tika Endah Lestari, Department of Industrial Engineering, Faculty of Engineering and Technology, Sampoerna University

ID 349 Framing Analysis of CNN Indonesia's News About the Escape of Selebgram Rachel Vennya from Quarantine

Panji Imanul Syahrul and Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 350 Students Uncertainty Reduction Strategy During Online Lectures

Cindi Jane Suharjo and Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 397 The Implementation of Subsidies for Micro, Small, and Medium Enterprises. A Framework in Achieving Development for the WTO Member States

Putu George Matthew Simbolon, Universitas Kristen Indonesia Most Outstanding Student, International Legal Studies Micro Master Student in University of Louvain, Belgium
Faculty of Law, Center for International Law and Human Rights, Universitas Kristen Indonesia, Jakarta, Indonesia

ID 650 The Effect of e-service quality, e-service satisfaction, on e-service loyalty of Indonesian E-commerce using SEM-PLS Methodology

Annisa Nurul Fitriani, Imanuddin Hasbi, Mahir Pradana, Tri Indra Wijaksana and Budi Rustandi Kartawinata, School of Communication and Business Telkom University, Bandung, Indonesia

8:00 – 9:45 am, SATURDAY**Graduate Student Paper Competition****Virtual Room 2**

Judging Committee Chair: Dr. Doga Demirel, Florida Polytechnic University, Florida, USA

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 572 Economic Analysis of Fuel Trucks Transportation for the Gas Station in Riyadh City

Abdulrahman Alosaimi, Abdullah Alshahrani and Amal Aljahdari, College of Engineering, Graduate Studies, Alfaisal University, Riyadh, Saudi Arabia
Dr. Sobhi Mejjaoui, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 617 Development of aE-bike sharing system through the use of IDEs Method

Curzio Pagliari and Martina Marruganti, Master Degree Student, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy
Leonardo Frizziero, Senior Assistant Professor, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 674 Mailroom Operations Improvement Using Simulation

Asnath S. Mosha, Masters in Engineering and Operations Management, University of New Haven, West Haven, CT 06516, USA
Jack Krivitsky, Masters in Industrial Engineering and MBA, University of New Haven, West Haven, CT 06516, USA
M Ali Montazer, Ph. D., Professor of Industrial Engineering and Engineering Management, University of New Haven, West Haven, CT, USA

ID 465 Quality 4.0 – A Quality Focused Implementation Strategy for Industry 4.0 Technologies

Thomas Jones, Doctoral Candidate, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

ID 26 In-Stream Marine Litter Collection Device Location Determination Using Bayesian Network

Abdullah Battawi, Mohammad Marufuzzaman and Junfeng Ma, Department of Industrial and system Engineering, Mississippi State University, Starkville, Mississippi, USA
Ellie Mallon, Vedral, Anthony and Eric Sparks, Department of coastal Marine Extension Program, Mississippi State University, Starkville, Mississippi, USA

8:00 – 9:45 am, SATURDAY**Masters Thesis Competition****Virtual Room 4**

Judging Committee Chair: Prof. Don Reimer, IEOM Society

Zoom Host: Amar Shabir, Florida Polytechnic University, Lakeland, Florida, USA

ID 31 Leveraging choice modeling technique for enhancing the cyber resilience of the smart grid

Kesava Karishma Devi Dadi, Graduate Student, Industrial and Systems Engineering, Mississippi State University, Mississippi State, USA
Niamat Ibne Hossain, Assistant Professor, Engineering Management Department, Arkansas State University, State University, USA
Raed Jaradat, Associate Professor, Industrial and Systems Engineering, Mississippi State University, Mississippi State, USA

ID 185 Supply Chain Coordination Under Retail Competition: Literature Review and Research Opportunity

Dewi Rahmasari and Niniet I. Arvitrida, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 191 Evaluation of The Implementation of Construction Safety Management System During The COVID-19 Pandemic in Rental Apartment Construction Projects to Improve Construction Safety Performance

Muhammad Indra Nur Pratama and Yusuf Latief, Department of Civil Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 256 Education Quality Improvement of PKBM (an Indonesian Community Learning Center) in West Java with EduQUAL based on accreditation during COVID-19 Pandemic

Hilmana Radhia Putera and Zulfa Fitri Ikatinasari, Industrial Engineering Department, Faculty of Engineering, Universitas Mercu Buana Meruya, Jakarta, Indonesia

ID 262 Lean Construction Analysis of the Interior Project

Dinda Ayu Nawangsasi and Zulfa Fitri Ikatinasari, Departement of Industrial Engineering, Universitas Mercu Buana, DKI Jakarta, Indonesia

ID 576 Unlocking the Full Potential of Augmented Reality for Decision Making Under Battlefield Stress

Betsy Guzmán, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

8:00 – 9:45 am, SATURDAY

Business Management

Virtual Room 5

Session Chair: Mariluz Osorio Quiceno, Universidad Distrital "Francisco José de Caldas", Bogotá - Colombia

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 270 Intrinsic, Extrinsic Rewards and Job Satisfaction: Role of Job Performance and Creative Performance

Cynthia Manimegalai and Dr. Shwetha M Krishna, Business School, Vellore Institute of Technology, Chennai, India

ID 299 Comparison of Consumer Loyalty Between Shopee and Tokopedia: A Systematic Literature Review

Haryadi Sarjono, Danang Prihandoko, Malvin Jevon, Roselyn Lauwsen, Gabriela Clara and Hadi Sasana Putra, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta Barat, Indonesia

ID 301 Empowering Employee Performance Against the COVID-19 Pandemic in Human Resource Management in Industry

Haryadi Sarjono and Hendry Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
Ricky Ramadhan Putra, Figo Mohammad Thamyiz, Kennard Lorenzo Lekatompessy and Jason Gorga Simanjuntak, BINUS Business School Undergraduate, Bina Nusantara University, Marga Mulya, Kec. North Bekasi, Bekasi City, West Java, Indonesia

ID 302 The Influence of Brand Prestige, Service Quality, Food Quality and Perceived Value on Customer Satisfaction in The Fast-Food Industry

Haryadi Sarjono, Vinson Georvano and Hendry Hartono, BINUS Business School Undergraduate Binus University, Jakarta, Indonesia

ID 304 Systematic Literature Review, Comparison of Interest in Buying Food on Shopee App and Gojek App in Century Pandemic

Haryadi Sarjono and Hendry Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
Desy Ratnasari, Princess Widiyanti, Hana Utami Zahra and Salsabila Tri Rahmah, BINUS Business School Undergraduate, Bina Nusantara University, Marga Mulya, Kec. North Bekasi, Bks City, West Java, Indonesia

ID 308 Systematic Literature Review: Employee Productivity in E-Commerce in Indonesia Over Covid-19 pandemic

Haryadi Sarjono, Danang Prihandoko, Alfina Fauziah Pradhini Hadi, Calvin, Muhammad Fakhri Haikal and Sherly Angelika, BINUS Business School Undergraduate, Bina Nusantara University, Palmerah, Jakarta Barat, Indonesian

ID 332 Socio Economic Factors and Justice. Colombia 2010-2015

Mariluz Osorio Quiceno and Wilson Alexander Pinzón Rueda, Universidad Distrital "Francisco José de Caldas", Bogotá - Colombia
Edgar Olmedo Cruz Micán, Administración de Empresas AEMD, Corporación Universitaria Minuto de Dios, Bogotá, Colombia

8:00 – 9:45 am, SATURDAY

SCM

Virtual Room 6

Session Chair: Arij Lahmar, Uiniversity of Dubai, United Arab Emirates

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 36 Designing Supply Chain to Hedge Against Disruptions: A Review of Literature in General and Agro Food Supply Chains

Sherine Beshara, Hadi Fors, Nermine Harraz and Hamdy Elwany, Production Engineering Department, Alexandria University, Egypt

ID 237 Mapping and Visualization Research Trend of Supply Chain Digital Twin: A Bibliometric Review

Fairuz Iqbal Maulana, Raden Aditya Kristantomo Putra and Donna Carolina, Bina Nusantara University, Jakarta Indonesia
Mohammad Nazir Arifin, Informatics Engineering Study Program, University of Madura, Pamekasan, Indonesia
Ridho Herasmara, Electrical Engineering, Faculty of Science and Technology, Raden Rahmat Islamic University, Malang, Indonesia

ID 259 Humanitarian Supply Chain Maturity Assessment Model for Indonesian Humanitarian Organization

Maha Restu Gusti Azizi and Arian Dhini, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
maharestu.gusti@ui.ac.id

ID 284 Car Demand Forecasting of Toyota in Indonesia: A Case Study Medium Price Category

Andi Maulana, Farizal and Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 305 Towards the Development of a Performance Evaluation of a Hyperledger Fabric Blockchain-based Application for Traceability of Distribution and Recall Transactions in Pharmaceutical Supply Chain

Mary Jane C. Samonte, Danica Grace D. Advincula, Sofia Samantha B. Beltran and Aiko D. Obog, School of Information Technology, Mapúa university, Manila, Philippines

ID 335 Supply Chain Risk Assessment integrating Vulnerability index

Arij Lahmar, University of Dubai, United Arab Emirates

8:00 – 9:45 am, SATURDAY**Technology Management****Virtual Room 7**

Session Chair: Yaumil Khairon, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 48 Success Factors Identification of ERP Implementation in Indonesian Coal Mining Enterprise

Chandrika Nastiti Hendrawan, Rahmat Nurcahyo and Farizal, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Depok, Jawa Barat, Indonesia

ID 258 Development of the Triple Helix Model Research and Innovation Funding Assessment Instrument with the Design Thinking Method

Nur Rahmawati and Amalia Suzianti, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

ID 307 Towards the Development of a Usability Evaluation of a Pregnancy Health Monitoring System Using IoT

Mary Jane C. Samonte, School of Information Technology, Mapúa University, Manila, Philippines

Bea Shaneal Francesca F. Franco, Helisha A. Ocampo, and Mauryng Angela F. Rodriguez, School of Information Technology, Mapúa University Makati City, Philippines

ID 383 Development of User Interface Design for Electronic Waste Collection with a Design Thinking Approach

Afia Donny N and Amalia Suzianti, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

ID 189 Development of a Forecasting Tool to Address High Percentage of Breach in Delivery Times in a Local Food Delivery Service

Tomas Gabriel N. Domingo, Noah P. Hermogenes, Nikko E. Yuag, Engr. Carlos Ignacio Jr. P. Lugay, Ph.D., PIE, ASEAN Eng., Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Metro Manila, Philippines

ID 293 Decision Making of Product Deletion and Repetition for The Muslim Fashion Industry

Yaumil Khairon and Farizal, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 126 A new lot sentencing method for products with multiple quality characteristics based on process yield

Shih-Wen Liu, Assistant Professor, College of Management, National Chin-Yi University of Technology, Taichung, Taiwan

Chien-Wei Wu, Distinguished Professor, Department of Industrial Engineering and Engineering Management, National Tsing Hua University Hsinchu, Taiwan

June 11 (Saturday) - Session: 10:00 – 11:45 am**10:00 – 11:45 am, SATURDAY****Undergraduate Paper Competition****Virtual Room 1**Judging Committee Chair: Dr. Reinaldo Sanchez-Arias, Department of Data Science and Business Analytics, Florida Polytechnic University, USA
Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA**ID 199 Design, Fabrication and Analysis of Chassis for Electric Bike**

Fahim Foysal Arnob, Md. Shahnewaz Khan and Md. Humayun Kabir Bhuiyan, Department of Mechanical Engineering, Military Institute of Science and Technology, Dhaka, Bangladesh

ID 586 Effects of Gender on Emotional Intelligence in Employability skills of Technical Education Graduate

Ibrahim Haruna Bako and Yusmarti Binti Yusof, Faculty of Technical and Vocational Education, University Tun Hussein Onn Malaysia, Malaysia

ID 227 “Relationships Between Sleep Quality, Fatigue, Stress and Anxiety of IE41S1 in Technological Institute of the Philippine Quezon City: A Multiple Regression Analysis”

Aban Martson, Art Jeffrey's Castillo, Russel Dela Merced, Donavel Lazarte, Alexander C. Malapitan, Paul Ezekiel Sonza, Department of Industrial Engineering, College of Engineering and Architecture Technological Institute of the Philippines - Quezon City Cubao, Quezon City Philippines

ID 276 Assessing the Effect of Physical Health Struggles of the Frontline Delivery Riders to their Mental Workload Using NASA TLX

Jaimelhen M. Aviñante, Roland Batucal, Roi Vincent B. Limin, Rose-Ann P. Pasiona, Danica Myle B. Tibayan and Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines-Manila, Philippines

ID 158 Business Process Modelling in the WCM 4.0 Achievement: Digitalization of a WCM Pillar in a Portuguese Company

Juliana Basulo Ribeiro, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Portugal

Juliana Salvadorinho, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Marlene Amorim, Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP) and Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Governance, Competitiveness and Public Policies (GOVCOPP), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

ID 2 Strategic prospective to improve the environmental sustainability of the copper mining industry in Peru

Gabriela Chumacero-Mamani, Claudia Rossana Chávez-Yánac and Edilberto Miguel Ávalos-Ortecho, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Lima, Perú

ID 05 Implementation of lean manufacturing to increase the machine's availability of a metalworking company

Diego Cabezas-Fulca, Ismael Muelle-Macchiavello and Edilberto Avalos-Ortecho, Industrial Engineering Study Program, Universidad de Lima Lima, Perú

ID 649 Social Media Marketing's Effect on Brand Awareness of Indodax Financial Service

Reza Ramadhan, S1 Business Administration Study Program, Faculty of Communication and Business, Telkom University, Bandung, Indonesia
Aditya Wardhana, Tri Indra Wijaksana and Mahir Pradana, School of Communication and Business Telkom University, Bandung, Indonesia

10:00 – 11:45 am, SATURDAY**Doctoral Dissertation Competition****Virtual Room 2**

Judging Committee Chair: Dr. Doga Demirel, Florida Polytechnic University, Florida, USA

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 113 Preoperative Predictors for 30-day Postoperative Emergency Department Visit after a Bariatric Surgery

Pawan Bhandari and M. Affan Badar, Department of Applied Engineering and Technology Management, Indiana State University, IN, USA
Christopher Kluse, College of Technology, Architecture and Applied Engineering, Bowling Green State University, Bowling Green, OH, USA
Suhansa Rodchua, School of Technology Graduate Programs, University of Central Missouri, Warrensburg, MO, USA

ID 148 A Conceptual Framework for Innovation Product and Marketing Strategy at Precast Construction Company in Indonesia to Increase Competitiveness

Ranti Hidayawanti and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 395 Leveraging Data Analytics to Study the Impact of State Budget Cuts on Public Higher Education Institutions in the United States

Praveen Kumar Guraja, Coleman College of Business, University of Pikeville, Pikeville, Kentucky, USA
M. Affan Badar and Farman A. Moayed, College of Technology, Indiana State University, Terre Haute, Indiana, USA
Christopher J. Kluse, Department of Engineering Technology, Bowling Green State University, Bowling Green, Ohio, USA

ID 447 Characterizing Adopter and Non-Adopter of Photovoltaic System in Indonesia

Nurwidiana Nurwidiana, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada, Indonesia
Industrial Engineering Department, Sultan Agung Islamic University, Indonesia
Bertha Maya Sopha and Adhika Widyaparaga, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada, Indonesia

ID 482 Integrated Agent-Based Simulation, Machine Learning, and Optimization of the Urban Food-Energy-Water Nexus and Incorporating Renewable Electrification, and Micro Supply Chains

Marwen Elkamel and Luis Rabelo, Industrial Engineering & Management Systems Department, University of Central Florida, Orlando, FL, USA

ID 524 Implementation of Ergonomics System and ISO 14001:2015 to provide a safe, healthy workplace and Environmental Sustainability in the Heavy Metal Construction Industry

Augustin Madouma Ma Lewandja PhD Candidate, Dr. Madonsela Nelson Sizwe and Dr. Victor Mofokeng, The University of Johannesburg, Faculty of Engineering and Built Environment, Quality and Operations Management Department, Johannesburg, South Africa

ID 555 A Framework for Assessing the Maturity Level of Implementing Quality 4.0 in Higher Education Institutions

Bandar Alzahrani, PhD student and Ahmad Elshennawy, Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

ID 618 A Conceptual Model for Quality 4.0 Deployment in Us Based Manufacturing Firms

Thomas Logan Jones, Department of Industrial Engineering and Management Systems, in the College of Engineering and Computer Science, at the University of Central Florida, Orlando, Florida, USA

ID 615 Exploring of Service Quality and Satisfaction among US Hajj Pilgrims in Accordance with 2030 Vision Objectives

Majid Alshaibi and Ahmad Elshennawy, Doctoral Student, Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

10:00 – 11:45 am, SATURDAY**Human Factors and Lean Six Sigma Competition****Virtual Room 4**

Judging Committee Chair: Prof. Don Reimer, IEOM Society

Zoom Host: Aamar Shabir, Florida Polytechnic University, Lakeland, Florida, USA

Human Factors and Ergonomics Competition**ID 52 Human Augmentation: A System Engineering Conceptual Framework**

Hazel Gamboa and Dr. Slim Saidi, Rochester Institute of Technology, Dubai RIT Dubai, United Arab Emirates

ID 120 Reducing the Ergonomic Risk Level in the Production Area of a Manufacturing Company

Arturo Realyvásquez-Vargas, Karina Cecilia Arredondo-Soto, Guadalupe Hernández-Escobedo, Departamento de Ingeniería Industrial Tecnológico Nacional de México/Instituto Tecnológico de Tijuana, Tijuana, Baja California, Mexico
Jorge Luis García Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juárez, Chihuahua, Mexico
Cuahtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnológico Nacional de México/Instituto Tecnológico de Orizaba Orizaba, Veracruz, Mexico

ID 151 Competence management in Industry 4.0: An innovative concept to support a Skill@Mgmt 4.0 tool

Tiago Bastos and Juliana Salvadorinho, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
Andreia Vitória, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Research unit in Governance, Competitiveness and Public Policies (GOVCOPP), University of Aveiro, Aveiro, Portugal

Leonor Teixeira, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Aveiro, Portugal

ID 520 Effects of Academic Workload on the Burnout of Students during Online Learning

Ma. Janice J. Gumasing, Christian Jay E. Sesnorio, Henrie Louis P. Subido and Charles Kristian K. Ilo, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

Lean Six Sigma Competition

ID 238 Failure Analysis Process Leadtime Reduction in a Manufacturing Company through Eliminate, Combine, Re-arrange, and Simplify (ECCRS) Concept

Gerlyn Calica Altes, Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management Mapúa University, Manila, Philippines

Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan

Reny Nadlifatin, Department of Information Systems, Institut Teknologi Sepuluh Nopember, Kampus ITS Sukolilo, Surabaya, Indonesia

ID 260 Production capacity increase in medical device manufacturing assembly lines

Karina Cecilia Arredondo-Soto, Arturo Realvásquez-Vargas and Guadalupe Hernández-Escobedo, Departamento de Ingeniería Industrial Tecnológico Nacional de México/Instituto Tecnológico de Tijuana, Tijuana, Baja California, Mexico

Jorge Luis García Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juárez, Chihuahua, Mexico

Cuahtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnológico Nacional de México/Instituto Tecnológico de Orizaba Orizaba, Veracruz, Mexico

ID 266 Improving Patient Experience and Processing Times in a Major Metropolitan Hospital Through the Application of a Lean Six Sigma Methodology

Michael Sedlack, Department of Electrical and Computer Engineering, University of Central Florida, Orlando, Florida, USA

Chirag Merchant, Ismael Hussein, Matthew Kenney, Nathan O'Brien, and Thomas Strock, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

ID 651 Applying Lean Six Sigma to Enhance the Medical devices Repair Process in Public Healthcare Sector in Egypt

Lina El-Sherif Ismail, Assistant Professor, Department of Industrial and Management Engineering, Arab Academy for Science Technology & Maritime Transport (AASTMT), Alexandria, Egypt

Heba Elhaddad, Assistant Professor, Department of Industrial Engineering, Alexandria Higher Institute of Engineering and Technology (AIET), Alexandria, Egypt

Mohamed S. Saleh, Military Technical College, Egyptian Armed Forces, Cairo, Egypt

Ayman A. Nassar, Medical Services Administration, Egyptian Armed Forces, Cairo, Egypt

Ahmed A Mohamed, Director, Solutions Engineering, Healthcare System

10:00 – 11:45 am, SATURDAY

Competitions

Virtual Room 5

Judging Committee Chair: Dr. Hayder Zghair, Southern Arkansas University

Zoom Host: Ms. Shipa, UTHM, Malaysia

Poster Competition

ID 322 Mathematical Analysis of Self-Heating in Materials with High Dissipation

Irina Viktorova, Leo Rebholz, and Victoria Luongo, School of Mathematical and Statistical Sciences, Clemson University, South Carolina, USA

Abdullah Kose, Graduate Student, Department of Automotive Engineering, Clemson University, Clemson, South Carolina, USA

ID 433 Development Food Healing Application Based on Mood Identification Using Intelligent Automatic Heartbeat Recognition System

Nicholas Jason Antonio, Yosse Ricardo Nobel, and Winda Astuti, Automotive and Robotics Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia

Senior Design Project Competition

ID 99 Pharmaceutical Warehouse Product Flow Optimization

Hecyaliz Rubero, Leslie Ann Feliciano, Abneris Ayala and Jannette Pérez-Barbosa, Department of Engineering, Universidad Ana G. Méndez, Gurabo, Puerto Rico, USA

Simulation Competition

ID 338 Machining process optimization using simulation in Flexsim

Renan Pontes, Samuel Francisco das Virgens, Talia Pontes, Rodrigo Luiz Gigante and Henrique Ewbank, Facens University, Sorocaba, São Paulo, Brazil

Supply Chain and Logistics Competition

ID 10 Iran Logistics Market, a Smart Knowledge-Based Logistics Market with Smart Party Logistics (SPL) Approach

Dr. Javad Khamisabadi, Department of Industrial Management, Faculty of Management, Islamic Azad University, Tehran, Iran

Mohammad Rouhina, Director of Systems Management, Iran Khodro Automotive Co (IKCO), Tehran, Iran

Dr. Seyed Ahmad Ghasemi, Faculty Member, Tehran Institute of Humanities and Social Studies (ACECR)

Seyed Mohammad Hosseini, Deputy Minister of International Affairs MAHBAK foundation

Javad Heidaran, M.A Student, Department of Electronic Commerce, Islamic Azad University, Tehran, Iran

ID 573 Economic Analysis of Fuel Trucks Transportation for The Gas Station in Riyadh City

Abdulrahman Alosaimi, Abdullah Alshahrani and Amal Aljahdari, College of Engineering, Graduate Studies, Alfaisal University, Riyadh, Saudi Arabia
Dr. Sobhi Mejjaoui, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 603 Risk Factors Analysis in Apparel Supply Chain Management

Md Mamunur Rashid and Mohammed Raihan Uddin, Department of Industrial & Production Engineering, Bangladesh University of Textiles, Dhaka, Bangladesh

10:00 – 11:45 am, SATURDAY**SCM****Virtual Room 6**

Session Chair: Hannah Kressel A. Pascasio, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 445 Supply Chain Disruption: A Conceptual Framework on Decision Making Using Neuroscience

Sadiya Siddique, Graduate Student, Department of Mechanical and Industrial Engineering, Rochester Institute of Technology, Dubai, UAE

ID 464 Export Demand Estimation of Thai Rice by Using Artificial Neural Network Model

Adcharawadee Keawwande and Chakthong Thongchattu, Department of Industrial Engineering, School of Engineering, University of Phayao Phayao, Thailand

Asawin Pasutham, Business School, University of Thai Chamber of Commerce, Bangkok, Thailand

ID 487 The Influence of Supplier Integration, Internal Integration, and Customer Integration on Supply Chain Performance Modified by Demand Uncertainty

Adhitya Trubus Hanggara, Kelvin Anthony, Stephanie and Sambudi Hamali, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 204 Operational Factors Analysis and Performance Values of Green Manufacturing at Brewing Company Using Green SCOR Method - A Case Study

Danang Pinardi Putra and Alfonz Lawrenz Kilay, Industrial Engineering Department, BINUS Graduate Program - Master of Industrial Engineering Bina Nusantara University, Jakarta,

Rienna Oktarina, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

ID 288 Analysis of Green Supply Chain Management Application in Indonesian Automotive Company Using Integrated Green SCOR and AHP Method

Samuel Tagan R. Sinaga and Maya Arlini, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 317 Core Retrieval Decisions Under Quality Uncertainty in Remanufacturing System

Ashutosh Mishra and Priyanka Verma, Operations and Supply Chain Management, National Institute of Industrial Engineering (NITIE), Vihar Lake, Mumbai, India

ID 451 Circular Supply Chain System for Electric Vehicle in Indonesia: A Conceptual Model

Karsi Widiawati and Bertha Maya Sopha, Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia

ID 27 A Study on The Impact of Green Cosmetic, Personal Care Products, And Their Packaging to Consumer's Purchasing Behavior in the Philippines

Engr. Carlos Ignacio JR. P. Lugay, PHD, PIE, ASEAN ENGR., Glorizen V. Delapaz, Rhaniel Myxen A. Montes, Justin Ivan D.R. Oliquino and Hannah Kressel A. Pascasio, Department of Industrial Engineering, University of Santo Tomas, España Blvd., Sampaloc, Manila, Philippines

ID 440 Coordination Mechanism among Key Players during Disaster Relief Operations: A Case Study

Bertha Maya Sopha, Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada (UGM) Yogyakarta, Indonesia

10:00 – 11:45 am, SATURDAY**Innovation****Virtual Room 7**

Session Chair: Asha Bhatia, Universal Business School, Karjat. Maharashtra, India

Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 257 The Intensification of Interplanetary Within the Laboratory Through Fabricating Steel Material into Shelve.

Simphiwe Ngcobo and Bantubenzani Nelson Mdlolo, Department of Industrial engineering, Systems Engineering and Management Engineering, University of South Africa, Johannesburg, Florida, South Africa

ID 405 Banana paper, an organic alternative

Diego Sanchez, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

ID 403 Incorporation of pomegranate peel as food additive in wheat flour, for baking and pastry uses

Sergio Patricio Ortiz Onofre, María Alejandra Islas, Álvaro Makowsky Rico, Fernanda Silva Vázquez, Marcelo Gerardo González y González and Nora Guerrero López, Student, Industrial Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

ID 417 Designing a Business Process Based on Knowledge Management and Product Development Process in IT Industry

Amalia Suzianti and Adhwa Rana Sausan, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 325 Incremental and Radical Innovation Patterns on MSMEs

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 527 Dilemma of a Trainee – Corporate Assimilation Initiatives

Nilanka Chatterjee and Dr. Asha Bhatia, Universal Business School, Karjat. Maharashtra, India

ID 444 A Comparative Study of the Indonesian and Brazilian Coffee Industry: A Porter's Diamond Approach

Natasha Sonia Siahaan and Roseno Aji Affandi, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

June 11 (Saturday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, SATURDAY**Undergraduate Paper Competition****Virtual Room 1**

Judging Committee Chair: Dr. Reinaldo Sanchez-Arias, Department of Data Science and Business Analytics, Florida Polytechnic University, USA
Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 133 Applying CAD/CAE/CAM Techniques for Optimizing the Design and Reducing the Cost of a Pediatric Stander

Carlos Arenas-Calvo, Sebastián Gifford-Velasquez, Alberto Flores-Perez, Juan Quiroz-Flores and Martin Collao-Diaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 161 Treatment of residual effluents from the textile industry based on adsorption methods using agro-industrial waste as adsorbent agents: a systematic review

Mario Galvan-Rodríguez, Jackeline Mamani-Apaza, Alberto Flores-Perez, Juan Quiroz-Flores and Martin Collao-Diaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 6 The Implementation of Lean Manufacturing to Increase Productivity in a Textile Company: Case of Study

Rodriguez-Concha Iván Alberto y Rosadio-Vela Jimena Roxana, Bachelor of Industrial Engineering, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Lima, Perú
Ávalos Ortecho Edilberto Miguel, Professor, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Lima, Perú

ID 653 Optimization of Vehicle Routing Problem with Delivery Systems

Ilham Kissani, Rabie Zine and Abdelaziz Sahel, School of Science and Engineering, Al Akhawayn University in Ifrane, Morocco

ID 647 Modelling and Analysis of I.C. Engine Piston

Kakaraparty Kumara Aditya, Ruttala Soma Sekhar, Karakata Ajay and Jalluri ajesh Kumar, UG student, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India
Ch. Siva Ramakrishna, Associate Professor, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

ID 668 Design And Analysis of Nine Speed Gear Box with Two Stages

Jaswanth Pudi, Sri Krishna Prasad Mutchakarla, Anisha Kotini and Vamsi Krishna Jagarapu, UG students, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India
Gangadhar Budireddi, Assistant Professor, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

12:00 – 1:45 pm, SATURDAY**COVID-19 Analytics Competition****Virtual Room 2**

Judging Committee Chair: Dr. Doga Demirel, Florida Polytechnic University, Florida, USA

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 247 Construction Company Performance Trends during the Covid-19 Pandemic

Andie M. Endrijatno and Isti Surjandari, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 489 Crowd Detection Camera to Prevent COVID-19

Alarob Bawarith, Alhanoof Alhamdan, Nouf Attar and Nouf Mohammad, Student, Department of Electrical and Computer Engineering, Effat University College of Engineering, Effat University, Jeddah, Saudi Arabia

ID 492 Development of COVID-19 Regional Forecast Models Using Machine Learning Approaches

Md Mamunur Rashid and Ben D. Sawyer, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, United States

ID 535 South Korea's Public Diplomacy and COVID-19: Evidence from an Expert Survey in Indonesia

Tina Doney, Nathanael Wirawan and Ella Syafputri Prihatini, International Relations Department, Bina Nusantara University, Jakarta, Indonesia

12:00 – 1:45 pm, SATURDAY**Artificial Intelligence****Virtual Room 4**

Session Chair: Ali Arishi, Department of Industrial, Systems, & Manufacturing Engineering, Wichita State University, Wichita, USA

Zoom Host: Aamar Shabir, Florida Polytechnic University, Lakeland, Florida, USA

ID 82 Process Monitoring in Additive Manufacturing Using Machine Learning Approach

Md Fashiar Rahman, Tzu-Liang (Bill) Tseng and Honglun Xu, Department of Industrial, Manufacturing and Systems Engineering, The University of Texas at El Paso, El Paso, Texas, USA
Yuxin Wen, Fowler School of Engineering, Chapman University, Orange, CA, USA

ID 87 Using Machine Learning to Determine Employability of Work Integrated Learning Interns in the ICT Industry

Prima Inderlal, Olawande Daramola, Department of Information Technology, Cape Peninsula University of Johannesburg, Cape Town, Western Cape, South Africa

ID 329 Learning models for delivery location clustering and drone-based routing decisions in last-mile distribution

Ali Arishi and Krishna Krishnan, Department of Industrial, Systems, & Manufacturing Engineering, Wichita State University, Wichita, USA

ID 340 Non-contact Inspection of Worm and Worm wheel using a Vision system

M. B. Kiran, Associate Professor, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India

ID 391 Experimental Investigation into Texture Analysis of Machined and 3D printed Surfaces

M. B. Kiran, Associate Professor, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India

ID 424 A Photo-Realistic Simulation and Test Platform for Autonomous Vehicles Research

Alexandra Dubs, Victoria Correa Andrade and Onur Toker, Department of ECE, Florida Polytechnic University, Lakeland, Florida, USA
Mark Ellis, Seth Ganley, Bayazit Karaman, Department of Computer Science, Florida Polytechnic University, Lakeland, Florida, USA

ID 426 Machine Learning Models for Crop Yield Prediction and a Smart Irrigation System

Marwen Elkamel and Luis Rabelo, Industrial Engineering & Management Systems Department, University of Central Florida, Orlando, FL, USA
Morgan C. Wang, Department of Statistics and Data Science, University of Central Florida, Orlando, FL, USA

12:00 – 1:45 pm, SATURDAY

Sustainability

Virtual Room 5

Session Chair: Sonam Chawla, Department of Human Resource, Jindal Global Business School, O. P. Jindal Global University, India
Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 437 Study of the Use of Natural Banana Fiber Developing Reinforced Composite Materials, supporting the SDGs of the 2030 Schedule

Pedro Jácome Onofre, Manuel Gutiérrez Nava and René Díaz Rebollar, Advanced Technology Center, Postgraduate -CIATEQ, A.C, Santiago de Querétaro, México.

ID 23 Agile Methodologies based method for the UDA-ERP software implementation

Cesar Mendez-Johegyi and Catalina Astudillo-Rodriguez, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
Esteban Crespo-Martinez, Engineering of Production School, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
Ana Vasquez-Aguilera, Engineering of Production School, Universidad del Azuay, Cuenca, Ecuador
Gabriela Chica-Contreras, Accountant and Auditory School, Universidad del Azuay, Cuenca, Ecuador

ID 30 Structural Systemic Method for Dealing with Part Failure Impact on Mechanical Subset's Neighboring Parts

Anouar Hallioui, Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez, Morocco
Brahim Herrou, Superior School of Technology of Fez, Sidi Mohamed Ben Abdellah University, Morocco, Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez 2202 - Imouzzer road, Morocco
Ricardo S. Santos, GOVCOPP, University of Aveiro, 3810-193 Aveiro, Portugal, Mechanical Engineering Department, ISEL, Polytechnique Institute of Lisbon, Lisbon, 1959-007, Portugal
Polinpapilinho F. Katina, Department of Informatics and Engineering Systems, University of South Carolina Upstate, Spartanburg, SC 29303, USA
Hassan Khadiri, Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez 2202 - Imouzzer road, Morocco

ID 41 Virtual Reality in Industrial Applications: An overview

Md. Milon Uddin, Graduate Research Assistant, Department of Electrical Engineering, The University of Texas at Tyler, Tyler, Texas, USA
Jounsap Park, Assistant Professor, Department of Electrical Engineering, The University of Texas at Tyler, Tyler, TX, US

ID 22 The impact of the presence of women on the board of directors on the performance of Organizations. Study of The Relationships Between Gender Diversity on the Board of Directors, Innovation and Performance

Nabila Chnaida, Abdelhack Sahib Eddine and Fairouz Naji, Laboratory of Studies and Research in Economics and Management (LERSEM) National School of Business and Management of El-Jadida, Chouaib Doukkali University – El Jadida (Morocco)

ID 406 Organizational Implications of Dual Career Couples: A Study in the Indian Context

Sonam Chawla, Assistant Professor, Department of Human Resource, Jindal Global Business School, O. P. Jindal Global University, India
Ateequr Rahman, Ph.D. Research Scholar, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India
K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan.

ID 208 Sustainable Plastic Waste Management Using a System Dynamics Approach

Marwa Al Nahlawi, Sameh Al-Shihabi and Ridvan Aydin, Department of Industrial Engineering & Engineering Management, University of Sharjah Sharjah, UAE

12:00 – 1:45 pm, SATURDAY

Six Sigma and Quality

Virtual Room 6

Session Chair: Abdul Kadir Hamid, Anwar Jarndal Electrical Engineering Department University of Sharjah Sharjah, UAE
Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 580 Design a Treadmill HIIT Program with Six Sigma DMAIC Methodology for Diabetic Patients

Mason Chen, Stanford Online High School, San Jose, CA, USA

ID 347 Improving the Outcome of Design Projects with a Cost Engineering Approach

Dennis Tribby, University of Central Florida, United States

ID 394 Application of Lean Six Sigma to Reduce Maintenance Tickets Duration in Residential FacilitiesOmar AlJuraiyed and Ali AlZaeri, College of Engineering, Graduate Studies, Alfaisal University, Riyadh, KSA
Dr. Sobhi Mejjaoui, Industrial Engineering Department, Alfaisal University, Riyadh, KSA**ID 334 Colombia: Sub National Murder Cyclicity. 2010- 2020**José Martín Díaz Pulido and Edgar Olmedo Cruz Micán, Facultad de Ciencias Empresariales, Administración de Empresas, Maestría en Educación Corporación Universitaria Minuto de Dios, Bogotá, Colombia
Rodrigo Quintero Reyes and Wilson Alexander Pinzón Rueda, Facultad Tecnológica, Universidad Distrital "Francisco José de Caldas" Bogotá, Colombia
Ricardo Mancera Pardo, Rony Edson Sánchez Calderón, RealData S.A.S., Bogotá D.C. Colombia**ID 80 Development of Drivers' Psychophysiological State Detection Measures and Relevant Machine Learning Methods**Shaima Alameeri, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE
Imad Alsyouf, Department of Industrial Management and Engineering Management, Sustainable Engineering Asset Management (SEAM) Research Group, University of Sharjah, Sharjah, UAE
Ahmad Alzghoul, Department of Data Science, Princess Sumaya University for Technology, Amman, Jordan
Hossam Almahasneh, Affiliated member of Sustainable Engineering Asset Management (SEAM) Research Group University of Sharjah Sharjah, UAE
Omar Jaradat, Qamcom Research and Technology, Gothenburg, Sweden
Abdul Kadir Hamid, Anwar Jarndal Electrical Engineering Department University of Sharjah Sharjah, UAE**ID 290 The assessment of food allergens in food management systems**Sandy Mosia, Nita Sukdeo and Anup Pradhan, Department of Quality and Operations Management, School of Mechanical and Industrial Engineering, University of Johannesburg, Gauteng, South Africa
Kemlall Ramsaroop Ramdass, Department of Mechanical and Industrial Engineering, Faculty of Engineering, University of South Africa, Gauteng, South Africa**ID 315 An Application of Reinforcement Learning to Sequential Process Control**

Wilkstar Otieno, Chair and Associate Professor, Department of Industrial and Manufacturing Engineering, University of Wisconsin-Milwaukee Milwaukee, Wisconsin, USA

June 11 (Saturday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, SATURDAY**Undergraduate Paper Competition****Virtual Room 1**Judging Committee Chair: Dr. Reinaldo Sanchez-Arias, Department of Data Science and Business Analytics, Florida Polytechnic University, USA
Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA**ID 162 Productivity Increase Through the Application of Lean, TQM and SLP Tools in the Peruvian Craft Brewery Cluster**

José Ulloa-Durand, Ander Vargas-Altamirano, Alberto Flores-Pérez, Juan Quiroz-Flores and Martín Collao-Díaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 163 Increasing sales in a real estate company using 5S and Standardization Work: A case of study

Carlos Miller Verano, Rafael Robello Ponce, Alberto Flores-Perez, Juan Quiroz- Flores and Martin Collao-Diaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 164 Perspectives on Last Mile Logistics: A Sustainable Approach

Mauricio Dávila-Granda, Andy Pedraza-La-Barrera, Alberto Flores-Perez, Juan Quiroz-Flores and Martin Collao-Diaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 560 Economic Decisions in Madeleine Boutique, le 315 - Engineering Economy and Cost Analysis

Dana Altheeb, Haifa Albahli and Dr. Sobhi Mejjaoui

ID 561 What-if Analysis at a food service operationSobhi Mejjaoui, Industrial Engineering Assistant Professor, Alfaisal University, Riyadh, Saudi Arabia
Noura AlMandeel, Nouf AlSultan, Hind AlBabtain, Anoud Alarnous and Amal Alhussain, Student, Department of Industrial Engineering, Alfaisal University, Riyadh, Saudi Arabia**ID 652 Birth Allocation Problem in a Container Terminal Real Case Study**

Kissani Ilham, Zine Rabie and Malih Aya, School of Science & Engineering, Al Akhawayn University, Ifrane, Morocco

ID 662 HVAC Air Duct Sourcing Analysis

Ghalyah Altukhaifi, Maha Almunajem, Aljohara Alkhorayef, Sara Binjohar and Sobhi Mejjaoui, alfaisal university, Riyadh, Saudi Arabia

2:00 – 3:45 pm, SATURDAY**High School STEM Competition****Virtual Room 2**Judging Committee Chair: Prof. Don Reimer, IEOM Society
Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA**ID 563 Widget Design Project (Extended Fighting Glove)**

Zaeed Saif, Washtenaw Technical Middle College, Ann Arbor, Michigan, United States

ID 581 Design a Digital Music Melody Hearing Test

Mason Chen, Stanford Online High School, San Jose, CA, USA

ID 663 Compare Wind and Solar Energy in Bangladesh

Anas Ali, Michigan Islamic Academy, Ann Arbor, Michigan, USA

ID 665 The Relationship Between Achievement in and Attitude toward Mathematics in the Digital Age

Alina Zhong, Stanford Online High School, California, USA

2:00 – 3:45 pm, SATURDAY**Industry 4.0****Virtual Room 4**

Session Chair: A. Boukili, Industrial techniques laboratory (LTI), Sidi Mohammed Ben Abdellah University, Fez, Morocco

Zoom Host: Amar Shabir, Florida Polytechnic University, Lakeland, Florida, USA

ID 219 Punching Process Optimization in a Metal Manufacturing Industry

Erick Guillermo Moran Martínez, Manufacturing Engineer, Master's degree in Management and Direction of Engineering Projects, Postgrad CIATEQ, A.C., Aguascalientes, Aguascalientes. México

Missael Alberto Román-del-Valle, Research Associate in Logistics and Supply Chain, Department of IT, Electronics and Control Centro de Tecnología Avanzada, CIATEQ A.C., Villahermosa, Tabasco, México

ID 14 Relating Analytics for Employee Turnover to Strategy of Organizations

R.R.K. Sharma, Sonal Gupta and Ravi Gunjan, Department of Industrial and Management Engineering, IIT Kanpur India

Niraj K Vishvakarma, IIIT Lucknow India

KK Lai, President. CYUT Taiwan

ID 170 Integrated impact of circular economy, industry 4.0, and lean manufacturing on the sustainability performance of Plastic and Petrochemical Organizations

Ahmed M. Ghaithan, Construction Engineering and Management Department, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

ID 218 Advanced Electromagnetic Wheel Robot

Sultan A. Shafaq, Senior Engineer, Saudi Aramco, Eastern Province, Dhahran, Saudi Arabia

ID 515 Enabling Digital Warehousing by an Additive Manufacturing Ecosystem

Arvin Shadravan and Hamid R. Parsaei, Wm Michael Barnes '64 Department of Industrial & Systems Engineering, Texas A&M University College Station, Texas, USA

ID 25 Petri Networks: Application to Discrete Systems of Dynamics Event

A. Boukili, Industrial techniques laboratory (LTI), Sidi Mohammed Ben Abdellah University, Faculty of Sciences and Techniques (FST), Fez, Morocco

M. Mesrar, Signals, Systems and Components Laboratory (LSSC), Sidi Mohammed Ben Abdellah University, Faculty of Sciences and Techniques (FST), Fez, Morocco

2:00 – 3:45 pm, SATURDAY**OR****Virtual Room 5**

Session Chair: Ziyad Bahou, Mohammadia School of Engineers, Mohammed V University of Rabat, Morocco

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 89 Learning from Data Water Quality Functions for Monitoring and Controlling Water Quality in Networks

Kia Zadeh, Industrial Engineering Ph.D. Student, School of Computing and Augmented Intelligence (SCAI), Arizona State University, Tempe, USA

Treavor Boyer, Associate Professor, School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, USA

Pitu Mirchandani, Professor, School of Computing and Augmented Intelligence (SCAI), Arizona State University, Tempe, USA

ID 392 CFD Critical Review on Slurry Flow in Horizontal Pipelines

Willy M. Mukendi, Department of Industrial and Systems Engineering, Cape Peninsula University of Technology, Cape Town, South Africa

Francis Kunzi Tekweme, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 439 Optimization Approach for Quay Crane Scheduling Problem Under a Combined Constraints

Imane Torbi, Student researcher, Mechanical department, National high School of Electricity and mechanics ENSEM /Hassan II University, Casablanca, MOROCCO

Mohamed Mazouzi, Professor, Mechanical department, National high School of Electricity and mechanics ENSEM /Hassan II University Casablanca, MOROCCO

ID 512 Why it is important to discuss the Generic Features of a Discrete Event Simulation Software.

Sankar Sengupta, Professor, Department of Industrial and Systems Engineering at Oakland University, MI, USA

ID 351 Design and Fabrication of a Dual Condition PIN-ON-DISC Automated Wear Testing Machine

Uhuami Abdulwahab, Industrial Training Fund, Industrial Skills Training Centre, Lokoja, Kogi State, Nigeria

M. B Ndaliman, O. A Olugboji and K. C Bala, Department of Mechanical Engineering, Federal University of Technology, Minna. Niger State, Nigeria

ID 386 Assessing the stochastic dependence effect on the integrated preventive maintenance scheduling and production planning

Ziyad Bahou, Mohammadia School of Engineers, Mohammed V University of Rabat, Morocco

ID 12 LP Model of Aggregate Production Planning (APP): Inclusion of Aggregate Shortage

RRK Sharma, Dept of IME IIT Kanpur, India

KK Lai, President, CYUT Taiwan

2:00 – 3:45 pm, SATURDAY**SCM****Virtual Room 6**

Session Chair: Ümmühan Akbay, Department of Management, Işık University, Istanbul 34980, Turkey

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 333 Personal Injury by Automotors. Colombia 2010 to 2020

Diego Karachas Rodriguez and Edgar Olmedo Cruz Micán, Facultad de Ciencias Empresariales, Administración de Empresas AEMD, Corporación Universitaria Minuto de Dios, Bogotá, Colombia

Rodrigo Quintero Reyes and Wilson Alexander Pinzón Rueda, Universidad Distrital "Francisco José de Caldas", Bogotá, Colombia

Carlos Andrés Arango Londoño, Universidad de La Salle, Bogotá, Colombia

Fidel Andrés Olarte Bustos, RealData S.A.S., Bogotá D.C. Colombia

ID 58 Artificial Intelligence in Logistics and Supply Chain Management: A Perspective on Research Trends and Challenges

Hasan Balfaqih, Supply Chain Management Department, College of Business Administration, University of Business and Technology, Jeddah, Saudi Arabia

ID 18 Modeling Additive Manufacturing Supply Chain considering Customer Product Choices

Julekha Hussain Ranta, Graduate Student, Department of Computational Engineering, Mississippi State University, Starkville, Mississippi, USA

Raed Jaradat, Associate Professor, Department of Industrial & Systems Engineering, Mississippi State University, Starkville, Mississippi, USA

Terril C. Falls, Associate Director, Institute for Systems Engineering Research (ISER), Mississippi State University, Starkville, Mississippi, USA

ID 134 System Dynamics in Supply Chains: A Bibliometric Review

Jorge Luis García Alcaraz and Liliana Avelar Sosa, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juárez, Chihuahua, Mexico

Cuauhtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnológico Nacional de México/Instituto Tecnológico de Orizaba Orizaba, Veracruz, Mexico

Arturo Realyvásquez-Vargas and Karina Cecilia Arredondo Soto, Departamento de Ingeniería Industrial, Tecnológico Nacional de México/Instituto Tecnológico de Tijuana, Tijuana, Baja California, Mexico

Ari Happonen, LUT School of Engineering Science, LUT University, Lappeenranta, Finland

ID 427 Agent Based Modeling of the Food-Energy-Water Nexus, Renewable Electrification, and Micro Supply Chains

Marwen Elkamel and Luis Rabelo, Industrial Engineering & Management Systems Department, University of Central Florida, Orlando, FL, USA

ID 285 Personality Traits in Supply Chain Contracting

Ümmühan Akbay, Department of Management, Işık University, Istanbul 34980, Turkey

Murat Kaya, Department of Industrial Engineering, Sabanci University, Istanbul 34956, Turkey

June 11 (Saturday) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, SATURDAY**Undergraduate Paper Competition****Virtual Room 1**

Judging Committee Chair: Dr. Reinaldo Sanchez-Arias, Department of Data Science and Business Analytics, Florida Polytechnic University, USA

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 430 Prospective strategies to improve the environmental sustainability of the copper mining industry in Peru

Gabriela Chumacero-Mamani and Claudia Rossana Chávez-Yánac, Graduated, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Lima, Perú

Edilberto Miguel Ávalos-Ortecho, Professor, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Lima, Perú

ID 169 Improvement Model to Increase production plan using forecasting tools and capabilities in an Industrial Paints

Ariana Balbin-Reymundo, Alberto Flores-Pérez, Juan Quiroz-Flores and Martin Collao-Díaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 190 Improvement Proposal Applying Standardized Work and 5'S to reduce the rate of returned orders of a Poultry company under the PDCA Cycle

Danitzia Silva-Campusano, Dayana Vega-Romero, Alberto Flores-Pérez, Juan Quiroz-Flores and Martín Collao-Díaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

ID 297 Biodegradable cardboard with straw fibre

Daryl Herrera, Fernanda Rengifo, Gerardo Vázquez, Ivonne García, Jackeline Salinas and Jesus Rodríguez, Industrial and Systems Engineering students, Monterrey Institute of Technology and Higher Education (ITESM), Monterrey, Nuevo León, Mexico

ID 319 Production process of a textile made from Punica Granatum L waste

Jorge Arámbulo, Maximiliano Carmona, Paola Criollos and Patricio Marcos, Students, School of Business and Engineering, Tecnológico de Monterrey, Monterrey, Nuevo León, México

ID 577 Development of Material Requirement Planning System for Snack Manufacturing Company

Sobhi Mejjaoui, Ph.D., Assistant Dean for Graduate Studies, & Research, MEM Master Program Director

Assistant Professor of Industrial Engineering, Alfaisal University, Riyadh, Saudi Arabia

Saad bin Saidan, Mohammed AlShuqayr and Al-Waleed Al-Babtain, Student, Department of Industrial

Engineering, Alfaisal University, Riyadh, Saudi Arabia

ID 579 Economics Analysis for PLACOS'S Pipe and Pipe Fittings Machine

Sarah Alajmi and Sarah El Sakka, Industrial Engineering Students, Alfaisal University, Riyadh, Saudi Arabia

Dr. Sobhi Mejjaoui, Professor, Department of Industrial Engineering and Management Systems

Alfaisal University, Riyadh, Saudi Arabia

ID 585 Strategy Development Analysis in Supply Chain Management In 3PL Service Industry

Aulia Syahnaz Fatmadila and Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering Universitas Indonesia, Depok, Jawa Barat, Indonesia

June 12 (Sunday)

June 12 (Sunday) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, SUNDAY

Human Factors and Ergonomics

Virtual Room 1

Session Chair: K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan
Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 460 Human Development Index among states of India: An empirical study

Sonam Chawla, Assistant Professor, Department of Human Resource, Jindal Global Business School, O. P. Jindal Global University, India
Ateequr Rahman, Ph.D. Research Scholar, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India
Smita Sharma, Ph.D. Research Scholar, Jindal Global Business School, O. P. Jindal Global University, India
K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan.

ID 517 Perceived Risk of COVID-19 among Students using RIKS Assessment Risk Factors

Ma. Janice J. Gumasing, James Brylle C. Foz, Martin James D. Olan and Daniel John B. Sacramento, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 519 Effects of Sleep Quality on the Fatigue Level of Students during COVID-19 Pandemic

Ma. Janice J. Gumasing, Julianne Mikhaella C. delos Reyes, Louis Miguel C. Dural, Julia Sofia D. Mangaoang, and Gaea Marithe W. Victor, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 156 The Development of the Repository Safety Model Canvas as a Database to Improve Safety Culture Maturity (A Case Study of PT. Prima Alam Gemilang)

Aqfi Nur Firdaus and Adithya Sudiarno, Department of Industrial Systems Engineering, Faculty of Industrial Technology and Systems Engineering Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 194 Technostress of an Employee Affects the Employee Retention Rate in an Organisation

Deveendra Menon, Au Yong Hui Nee and Syed Muhammad, UTAR Malaysia

ID 452 Design of Ergonomic Computer Mouse Pad to Improve Comfort and Reduce Mouse Elbow Injury

Ahmad Tubagus D. P., Assistant Professor, Industrial Engineering Department, Binus University, Jakarta, Indonesia
Ezra Peranginangin, Assistant Professor, Industrial Engineering Department, Binus University, Jakarta, Indonesia
Nathan Haryanto, Adhelin Jatsimin H. J. and Jennifer Giovanni, Product Design Engineering Program, Binus University, Jakarta, Indonesia

ID 459 Selection Interviews: Relationship with Job Performance and the Moderating Role of Training Interventions

Sonam Chawla, Assistant Professor, Department of Human Resource, Jindal Global Business School, O. P. Jindal Global University, India
Smita Sharma, Ph.D. Research Scholar, Jindal Global Business School, O. P. Jindal Global University, India
Ateequr Rahman, Ph.D. Research Scholar, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India
K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan

6:00 – 7:45 am, SUNDAY

Data Analytics

Virtual Room 2

Session Chair: Afif Panji Thuvail Lagonah, Information Systems Department, Bina Nusantara University, Jakarta, Indonesia

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 450 Customer Clustering and Classification for CRM Loyalty Program in Milk Powder Industry

Melky Simorangkir and Zulkarnain, Department of Industrial Engineering, Universitas Indonesia, Selemba, Jakarta, Indonesia

ID 466 The Effect of Social Media Marketing on Marketing Performance in Higher Education during Covid-19 Pandemic with Customer Satisfaction as Intervening Variable

Afif Panji Thuvail Lagonah, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia
Fiona Avangelina Jonathan, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia
Devrel Wijaya, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia
Nurlina, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia

ID 468 The Effect of Board of Commissioners' Experience and Education and Company's Size on the Quality of Financial Statements in Goods Consumer Companies Listed in Indonesia Stock Exchange in 2015-2017

Abdurrahman Fakhry, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia
Mohamad Heykal, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 469 The Influence of Intellectual Capital on Corporate Values with Financial Performance As Intervening Variables In Financial Sector Companies Listed In Indonesia Stock Exchange Period 2014-2016

Sharen, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia
Nuraini Sari, Accounting Department, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 475 Effect of Liquidity, Leverage, Profitability and Company Size on Tax Aggressiveness in Banking Companies Listed in Indonesia Stock Exchange in 2014-2016

Andi Nerissa Novianti, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia
 Heri Sukendar, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 478 The Effect of Net Profit Margin, Book Value, And Company Size on Stock Prices in The Consumption Goods Manufacturing Company Listed on Indonesia Stock Exchange (2015-2017)

Nhema Winelma Pasaribu and Gen Norman Thomas, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 479 The Effect of Net Working Capital and Good Corporate Governance on Working Performance Of Companies By Economic Value Added (Eva) Measurement In The Goods Consumer Sector Companies Listed In Idx 2014-2016

Silvia Julianti and Setiani Putri Hendratno, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, SUNDAY**Business Management****Virtual Room 3**

Session Chair: Edgar Pratama, School of Communication and Business Telkom University, Bandung, Indonesia
 Zoom Host: Karthik Dhandapani, MSIE Program, Lawrence Tech, MI, USA

ID 537 The Relationship Between Foreign Workers' Perceived Organizational Support, Cross-cultural Adjustment, and Performance in Hospitality Industry

Novita Indah Mulyaningrum, Dendy Rosman, Ichwan Masnadi and Laurencia Feriska, Hotel Department, Faculty of Digital Communication and Hotel&Tourism, Binus University, Jakarta, Indonesia

ID 538 Business Model Canvas: SMEs Recovery during the COVID-19 Pandemic

Sri Hartati, Engkus Kuswarno, Purwanti Hadisiwi and Funny Mustikasari Elita, Faculty of Communication Science, Universitas Padjajaran, Jatinangor, Indonesia
 Sri Hartati, School of Business and Management, Institute Technology Bandung, Bandung, Indonesia

ID 544 Clustering Different Learning Behavior with Model of Culture

Elia Oey, International Business & Management Program, Management Department, Binus Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Jason Lim, Civil Engineering Department, Pradita University, Tangerang, Indonesia

ID 558 Factors Affecting Bandung Students Using Internet Banking as A Non-Cash Payment Tool in The Covid-19 Pandemic Era (Case Study of Livin Application by Bank Mandiri)

Enrico Nathanael Eden and Budi Rustandi Kartawinata, Faculty of Communication and Business Telkom University, Bandung, Indonesia

ID 559 The Influence of Social Media Marketing Through Instagram And Brand Awareness on onsumer's Purchase Intention of Speedtuner In Indonesia

Figo Restu Perdana and Budi Rustandi Kartawinata, Faculty of Communication and Business Telkom University, Bandung, Indonesia

ID 568 The Impact of Corporate Image, Customer Loyalty, Customer Satisfaction and Affective Commitment in The Consumer Clothing Brand

Muhammad Mizani, Mahendra Fakhri, School of Communication and Business Telkom University, Bandung, Indonesia

ID 569 Influence of Habit and Facilitating Conditions on Use Behavior with M-Banking Intention as a Mediation Variable on Livin Mandiri

Edgar Pratama and Mahendra Fakhri, School of Communication and Business Telkom University, Bandung, Indonesia

6:00 – 7:45 am, SUNDAY**Business Management****Virtual Room 4**

Session Chair: Marjun A. Manahan, School of Information Technology, Mapua University, Manila, Philippines
 Zoom Host: Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 114 Banking Strategy in Maintaining Debtor Loyalty: The Mediation Role of Debtor Satisfaction

Danny Dewanto, Septio Adjie Binawanputra and Yokie, Graduate Students in Management, Bina Nusantara Business School, Bina Nusantara University, Jakarta, Indonesia
 Nur Damayanti, Lecturer in Management, Bina Nusantara Business School, Bina Nusantara University, Jakarta, Indonesia

ID 115 Determining the Influencing Factors of Purchase Intention of the Class 2021 Students of Bina Nusantara University Alam Sutera

Hardi Maringan A.H, Rahmat Ilahi and Christie Carrey, Master Students in Management, Bina Nusantara Business School, Bina Nusantara University, Jakarta, Indonesia
 Nur Damayanti, Lecturer in Management, Bina Nusantara Business School, Bina Nusantara University, Jakarta, Indonesia

ID 49 Predictive Analytics: A statistical approach on determining Hospital Readmission of Diabetic Patients

Joel C. De Goma and Marjun A. Manahan, School of Information Technology, Mapua University, Manila, Philippines

ID 203 Potential Hazards and Risk Factors Architectural Works in Rental Apartment Building Construction Project to Arrange Goals and Programs Construction Safety

Amirah Syifa, Master's Student, Department of Civil Engineering, University of Indonesia, Depok, West Java, Indonesia
 Yusuf Latief, Professor, Department of Civil Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 236 Identification of Risk Factors Causing Delays in The Completion Schedule in The Case Study of Double-Double Track Development (Package A)

Chrys Adrian Lolo, Graduate Student, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

Leni Sagita Riantini, Lecturer, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

Mohammad Ichsan, Lecturer, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 248 Risk Identification in the Controlling Process of Trans Sumatera Toll Road Project Based on PMBOK 6th Edition

Reisha Ananda Putri, Magister Program Student of Construction Management, Department of Civil Engineering, University of Indonesia, Indonesia
Yusuf Latief, Professor of Department of Civil Engineering, University of Indonesia, Indonesia

ID 286 Development of Risk-Based Standardized WBS (Work Breakdown Structure) of Stadium Main Building with Integrated Design-Build Contract for Cost and Time Planning

Andias Mintoarjo, Anggoro Putro and Yusuf Latief, Department of Civil Engineering, University of Indonesia, Depok, West Java, Indonesia

6:00 – 7:45 am, SUNDAY

Sustainability

Virtual Room 5

Session Chair: Perdana Suteja Putra, Department of Industrial Engineering, University of Indonesia, Jakarta, Indonesia

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 168 Review of Indonesia's Residential and Demographic Carbon Emission Using STIRPAT Model

Nathaniel Viandy Dondokambey, Rahmat Nurcahyo and Farizal F., Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 231 Evaluating the Gaps to Achieve Sustainable Development at the Village Level in Indonesia Using a Systemic Framework

Sayyid Al-Bahr Maulana and Akhmad Hidayatno, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 233 Study of Vertical Greening System Implementation at Flyover Structure in DKI Jakarta

Ganesh Aditya Aryoprawiroatama, Fadhilah Muslim, and Leni Sagita Riantini, Department of Civil and Environmental Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 255 The Development of Food Waste Reduction Strategy on the Food Service Sector in Indonesia

AM Bayu Dewantara and Romadhani Ardi, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 272 Design of a Food Sharing App Using Kansei Engineering and Fuzzy Linguistic Methods

Perdana Suteja Putra and Amalia Suzianti, Department of Industrial Engineering, University of Indonesia, Jakarta, Indonesia

ID 330 Modeling Causal Factors of In Fresh Produce Supply Chain: Indonesia

Wendy Febrianty Mardhiyah, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 378 Manufacture of Cardboard Based on Organic Fibers

Laura Edith Núñez Olmedo, Jorge Alejandro Granados Garza, Arantza Fernández Yañez, Priscila Garza Fernández and Sebastian Garcia Corral, Student of Industrial and Systems Engineering, Tecnológico de Monterrey University, Pachuca, Hidalgo
Oscar Farid Mera Jiménez, Student of Engineering in Innovation and Development, Tecnológico de Monterrey University, Cancún, Quintana Roo

ID 416 Green Manufacturing and State-Owned Enterprise Effect on China's Economic Growth

Ferusi Hibanavik, Student, Faculty of International Relations, Bina Nusantara University, Jakarta, Indonesia
Roseno Aji Affandi, Lecturer, Faculty of International Relations, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, SUNDAY

Operations Management

Virtual Room 6

Session Chair: Nita Inderlal Sukdeo, Department of Quality and Operations Management, University of Johannesburg, Gauteng, South Africa

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 13 A New Formulation of Multi Item Multi Period Capacitated Lot Sizing Problem with Setup Carryover, Inventory and Backorders (MIMPLSPWSCIB)

RRK Sharma and Syed Moize Ali, Department of Industrial and Management Engineering, IIT Kanpur, India
Mayank Verma, BARC Mumbai, India
Priyanka Modi Verma, NITIE Mumbai, India
KK Lai, President, Chao Yang University of Technology Taiwan

ID 15 New Heuristic for Solving Capacitated Lot Sizing Problem with Setups, Production, Inventory and Back Orders (CLSPWSIPB)

RRK Sharma, Department of IME, IIT Kanpur, India
Vinay Singh, ABV-IIITM Gwalior, India
Saurabh Sontakke, Department of ME, IIT Kanpur, India
KK Lai, President, CYUT Taiwan

ID 61 Building Agile Operations Management in the context of COVID-19 Pandemic: Case of the Oujda University (Morocco)

Abdelkhalek BAKHTI, PhD Student, High School of Technology, Med First University
Professor Saïda Filali, Ph.D., High School of Technology, Med First University

ID 63 Employee engagement and the impact on productivity in a South African FMCG company

Perumal Ricki Govender and Nita Inderlal Sukdeo, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Gauteng, South Africa
Kemlall Ramsaroop Ramdass, Department of Mechanical and Industrial Engineering, Faculty of Engineering, University of South Africa

ID 76 Design of Mass Rapid Transit (MRT) Service Quality Through Analysis of Factor Affecting Passenger Behavior Intention Using PLS-SEM and QFD

Amalia Hasanah Nur Ahlina and Dendi P Ishak, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 220 The Effect of Stress on Hospital Employee Performance: Case Study during the Covid-19 Pandemic

Dedi Iskanto, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia
 Jenita, Faculty of Syariah and Law, Universitas Islam Negeri Sultan Syarif Kasim, Indonesia
 Daru Asih, Faculty of Economic and Business, Universitas Mercu Buana, Indonesia
 Elkana Timotius, Universitas Kristen Krida Wacana, Jakarta, Indonesia
 Maidiana Astuti Handayani, Universitas Teknokrat Indonesia, Bandar Lampung, Indonesia
 Sulisty Andarmoyo, Universitas Muhammadiyah Ponorogo, Indonesia
 Dahlan Abdullah, Department of Informatics, Universitas Malikussaleh, Aceh, Indonesia

ID 224 Corporate Governance, Audit Committee and Corporate Tax Management

Widaryanti, Sekolah Tinggi Ilmu Ekonomi Pelita Nusantara, Semarang, Indonesia
 Leonita Siwiyan, University of Muhammadiyah Sukabumi, Indonesia
 Dahlan Abdullah, Department of Informatics, Universitas Malikussaleh, Aceh, Indonesia
 Dedi Iskanto, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia

6:00 – 7:45 am, SUNDAY**Lean and Operations****Virtual Room 7**

Session Chair: Wardatul Akmal, Rajshahi University of Engineering & Technology, Rajshahi, Bangladesh

Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 116 An Economic Order Quantity (EOQ) Model for Chemotherapy Drugs Using New Patients' Arrival Rates

Victor Suhandi, Ph.D. Candidate, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan City, Taiwan
 Ping-Shun Chen, Professor, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan City, Taiwan

ID 331 Effect of Personality on Newsvendor Decisions

Ümmühan Akbay, Department of Management, Işık University, Istanbul, Turkey
 Murat Kaya, Department of Industrial Engineering, Sabanci University, Istanbul, Turkey

ID 292 The Application of Lean Management to Improve Productivity – A Case Study of Kinik Company

James C. Chen, Mu-Hsuan Lee, Chia-Ruei Lee, Yung-Hsin Su and Kung-Chin Koo, Department of Industrial Engineering and Engineering Management, National Tsing Hua University, Hsinchu, Taiwan, R.O.C
 Thomas Hsieh and Tony Pai, Kinik Company, New Taipei City, Taiwan, R.O.C

ID 390 Implementation of kaizen Principles in an Injection Molding Machine Manufacturing Company

Mr. Manank Patel and Dr. MB. Kiran, Department of mechanical engineering, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India

ID 296 Patient-Specific Three-Dimensional Bone Printing to Facilitate Educational Purpose & Practice Surgery: Creating a Blueprint in Perspective of Future Bangladesh

Wardatul Akmal and Abdullah Al Mahmud, Department of Industrial and Production Engineering, Rajshahi University of Engineering & Technology Rajshahi, Bangladesh

ID 62 A Comparative Analysis of Natural and Artificial Flavorings through Analytical Methods and Flavor Additive Regulations

Sandy Mosia, Nita Sukdeo and Anup Pradhan, Department of Quality and Operations Management, School of Mechanical and Industrial Engineering, University of Johannesburg, Gauteng, South Africa
 Kemlall Ramsaroop Ramdass, Department of Mechanical and Industrial Engineering, Faculty of Engineering, University of South Africa, Gauteng, South Africa

ID 528 A Non-delay Algorithm for The Job-shop Scheduling Problem

Nur Ezha Vidawati, Management Trainee Supply Chain, FMCG Company
 Puryani and Apriani Soepardi, Department of Industrial Engineering, Faculty of Industrial Engineering, Universitas Pembangunan Nasional Veteran, Yogyakarta, Indonesia

ID 562 Applying Lean Six Sigma to Enhance the Medical devices Repair Process in Public Healthcare Sector in Egypt

Heba Elhaddad, Assistant Professor, Department of Industrial Engineering, Alexandria Higher Institute of Engineering and Technology (AIET), Alexandria, Egypt
 Mohamed S. Saleh, Military Technical College, Egyptian Armed Forces, Cairo, Egypt
 Lina El-sherif Ismail, Assistant Professor, Department of Industrial and Management Engineering, Arab Academy for Science Technology & Maritime Transport (AASTMT), Alexandria, Egypt
 Ayman A. Nassar, Medical Services Administration, Egyptian Armed Forces, Cairo, Egypt

June 12 (Sunday) - Session: 8:00 – 9:45 am**8:00 – 9:45 am, SUNDAY****Plenary I****Onsite Room 1**

Session Chair: Dr. Luis Rocha Lona

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

8:00 – 8:30 am (Sunday, June 12)

Dr. Luis Rabelo
Professor
Department of Industrial Engineering & Management Systems
University of Central Florida
Orlando, FL, USA

8:30 – 9:00 am (Sunday, June 12)

Hailey Skoglund
Data Analyst
The Walt Disney Company
Orlando, Florida, USA

9:00 – 9:30 am (Sunday, June 12)

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

8:00 – 9:45 am, SUNDAY

Global Engineering Education I

Onsite Room 2

Session Chair: Dr. Mario Chauca
Zoom Host:

8:00 am – 8:30 am (Sunday, June 12)

Dr. SANKAR SENGUPTA
Professor
Department of Industrial and Systems Engineering
Oakland University
Rochester, Michigan, USA

8:30 am – 9:00 am (Sunday, June 12)

Dr. Mario Chauca
Professor
Ricardo Palma University
Santiago de Surco, Peru

9:00 am – 9:30 am (Sunday, June 12)

Quintcey Smith
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, Florida, USA
Title of her presentation is:

Quality Evaluation of Standardized Testing in U.S. Educational System and Potential Implications on Engineering Education.

8:00 – 9:45 am, SUNDAY

Competitions

Onsite Room 3

Session Chair: Competition Chair – Dr. Hayder

Undergraduate Student Paper Competition

ID 73 A Case for Solar Energy System Dashboards to Validate Performance Warranties

Amaya McNealey, College of Engineering, North Carolina Agricultural and Technical State University, Greensboro, NC, USA
Esteban A. Soto and Lisa B. Bosman, Purdue Polytechnic Institute, Purdue University, West Lafayette, IN, USA

ID 457 Applicationo of The Bpm-Kraljic Model to Improve Supply Management in An Agroindustrial Mse

Ljubica Kovac-Alvarado and Camila Rivera-Gómez, Thesis writers, Universidad de Lima, Lima, Perú
Edilberto Miguel Avalos Ortecho, Professor, Department of Industrial Engineering, Universidad de Lima, Lima, Perú

Graduate Student Paper Competition

ID 50 Holistic QA: Software Quality Assurance for the Machine Learning Era

Shane Downing and M. Affan Badar, Department of Applied Engineering and Technology Management, Indiana State University, IN, USA

ID 81 Fine-Tuning the Parameters for Solving the Multi-Objective D-FACTS Optimal Allocation Problem

Eduardo Castillo Fatule, Department of Industrial, Manufacturing and Systems Engineering, The University of Texas at El Paso, Texas, USA
Yuanrui Sang, Department of Electrical and Computer Engineering, The University of Texas at El Paso, El Paso, TX, USA
Jose Espiritu, Department of Mechanical and Industrial Engineering, Texas A&M University, Kingsville, Texas, USA

ID 490 Application of Network Models to Assist in Data Science Curriculum Using Program and Course Learning Outcomes

Orel Yoshia, Graduate Program in Computer Science – Data Science, Florida Polytechnic University, Lakeland, Florida,
 Dr. Reinaldo Sanchez-Arias, Assistant Chair Department of Data Science and Business Analytics, Assistant Professor of Data Science, Florida Polytechnic University, Florida, USA
 Dr. Shahram Taj, Chair and Professor, Department of Data Science & Business Analytics, Florida Polytechnic University, Lakeland, Florida, USA

8:00 – 9:45 am, SUNDAY**Human Factors and Healthcare****Virtual Room 4**

Session Chair: Dr. Elizabeth O'Neill, Buffalo State College, United States

Zoom Host: Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 200 Ambulatory Staffing Optimization through the Development and Implementation of a Staffing Tool in a Community Based Primary Care and Specialty Clinic Setting

Pawan Bhandari, Bijoy Mathew, Ryan Johnson, Lindsay Hennek, Jennifer Mueller, Lisa McConnell, Tiffany Schaff, Heather Slama, Michael Pederson, Jessica Runge, Kelly Ashley, Angela Stransky, Daniel Muldoon, and Cassandra Renneke, Mayo Clinic Health System – Southwest Minnesota Region, Mankato, MN, USA
 M. Affan Badar, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, IN, USA

ID 418 Heart Disease Prediction using Machine Learning

Mumu Rahman and Shroog Jan, Students, Department of Electrical and Computer Engineering (ECE) Effat University, Jeddah, Saudi Arabia
 Dr. Tayeb Brahimi, Assistant Professor, Department of Electrical and Computer Engineering (ECE) Effat University, Jeddah, Saudi Arabia

ID 521 Effects of Boredom on the Academic Engagement of Students during Online Class

Ma. Janice J. Gumasing, Jan Aldrin V. Dahilig, Christine Angelie Y. Taw and Christlyn Mae C. Valeriano, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 522 Measuring the Learning Environmental Satisfaction of Students during Online Class

Ma. Janice J. Gumasing, Alliah Jane S. Agunos, Maria Kathryn A. Illescas and Leanne Dominique B. Loto, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 495 Mental Health Analysis in Tech Workplace

Md. Milon Uddin, Department of Electrical Engineering, The University of Texas at Tyler, Tyler, Texas, USA
 Afia Farjana and Muntasir Mamun, Department of Computer Science, The University of South Dakota, Vermillion, South Dakota, USA
 Miraz Al Mamun, Department of Economics & Decision Sciences, The University of South Dakota, Vermillion, South Dakota, USA

ID 575 Development of Smart Sustainable City Conceptual Design for Indonesia's New Capital City

Rafly Muzady and Mohammed Ali Berawi, Department of Civil and Environmental Engineering
 University of Indonesia, Depok, West Java, Indonesia

ID 155 Eliminating Injuries by Utilizing Self-Loading Equipment for Adaptive Snow-Sports

Dr. Elizabeth O'Neill, Keith McDade, and Tiffany Fuzak, Buffalo State College, United States

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

Session Chair: Asyraf Afthanorhan, Universiti Sultan Zainal Abidin (UniSZA), Kuala Nerus, Terengganu, Malaysia

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 117 The Effect of Taste and Business Location on Purchase Decisions (Case Study Sate Padang Jam Gadang Branch Bandar Lampung City Center)

Nur Afifah MZ and Aditya Wardhana, SI Business Administration Study Program, Faculty of Communication and Business, Telkom University, Indonesia

ID 147 Strengthening Innovation Ecosystem to Leverage Ambidexterity at an SME in Indonesia

Friska Mastarida, Business Management Department, BINUS Business School-Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Management Department, BINUS Business School-Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 153 Exploring Public Knowledge Worker Well-Being Using Rasch Model

Maria Grace Herlina and Dicky Hida Syahchari, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program
 Bina Nusantara University, Jakarta, Indonesia

ID 166 The Impact of Service Quality and Price on Customer Satisfaction in Building Customer Loyalty

Maria Grace Herlina, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University
 Jakarta, Indonesia
 Dewi, Johanne Jodie Aurelia, Senior Lecturer, Senior Student, Business Creation Program, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 171 How to Increase Destination Loyalty in Smart Tourism of Southeast Asia?

Dimas Yudistira Nugraha and Eriana Astuty, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung Indonesia

ID 222 Evaluating the Effectiveness of Self-Service Technology on the Use of Ride-Hailing Services: A Confirmatory Factor Analysis

Asyraf Afthanorhan, Nur Dalila Mukhtar and Nur Dalila Mukhtar, Faculty of Business and Management, Universiti Sultan Zainal Abidin (UniSZA), Kuala Nerus, Terengganu, Malaysia

ID 228 Determinant Factors in Developing a Micro-Pension Model for Self-Employed Workers in Malaysia

Hazimi Foziah, Faculty of Business and Management, Universiti Sultan Zainal Abidin, Malaysia

ID 565 Design and Development Website of Malang City Culinary as a Strategy to Improve Malang City Culinary Industry

Fairuz Iqbal Maulana, Juan Fernando Wijaya, Harrya Grahila P, Vincensius Billie Halim, and Antonius Eko Putranto, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

8:00 – 9:45 am, SUNDAY**Operations Management****Virtual Room 6**

Session Chair: Laila EL ABBADI, Engineering Sciences Laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco
Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 341 Fifth Generation Wireless Network Usage in the Operations of the Food Industry: Barriers and Benefits

Adetola Adeniyi, Master's candidate, cidb Centre of Excellence, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

Clinton Aigbavboa, Professor, cidb Centre of Excellence, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

Nita Sukdeo, Professor, Department of Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 376 Execution of Plan-Do-Check-Act and Lean in Manufacturing Line: A Case of Foundry Industry of South Africa

Kgashane Stephen Nyakala, Department of Mathematics & Statistics, Tshwane University of Technology, Pretoria, South Africa

Mbali Yvonne Moore, Council for Scientific and Research, Pretoria, Pretoria, South Africa

Kemlall Ramdass, Department of Mechanical Engineering, University of South Africa

ID 380 Planning and Controlling Raw Material of Balado Seasoning Using Material Requirements Planning (MRP) Method

Shella Purnamadewi and Shelly Purnamasari, Department of Management, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Teguh Sriwidadi, Department of Management, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 434 Resilience of Assembly Lines in Automotive Industry

Salah Eddine Ayoub EL AHMADI, PhD Scholar, Engineering Sciences Laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco

Laila EL ABBADI, Professor, Engineering Sciences Laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco

ID 471 The Effect of Career Development, Compensation, and Organizational Justice on Intention to Quit in Insurance Company X

Bany Kristiawan, Fadhil Akbar Nu'man, Putu Ayu Veda Abiwardani and Andhi Bharata, Management Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 488 Effect of Work Environment, Work Motivation and Transformational Leadership on Employee Performance in PT. XYZ

Faizal Ranuwirna, Pangeran Putra Pratama Riszky, Vindo Partamo and Cecep Hidayat, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 584 Hospital Bed Availability Forecasting During a Health Crisis

Kayla Akey, Masters of Engineering Management Program, A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

Ahad Ali, Ph.D., Associate Professor and Director of Industrial Engineering, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, Michigan, MI, USA

8:00 – 9:45 am, SUNDAY**Case Studies****Virtual Room 7**

Session Chair: Edi Lynne L. Cruz, School of Industrial Engineering and Engineering Management, Mapua University Manila, Philippines
Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 536 The Role of Identity in the Possibility of Normalization between Indonesia and Israel

Tia Mariatul Kibtiah and Ammar Haidar, Binus University, Jakarta, Indonesia

ID 539 Students' Experiences Undertaking New Colombo Plan (NCP) Program in Indonesia: Improving Australia's Public Diplomacy?

Nella Fanesanidya and Ella Syafputri Prihatini, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 542 The Role of Middle Power Country from Global-South in Multilateral Climate Change Negotiation Conference: Indonesia Role in Katowice Climate Change Conference

Moch Faisal Karim, Assistant Professor, Department of International Relations, Bina Nusantara University, Jakarta, Indonesia

ID 543 Shared Challenges and Opportunities in Ending Child Marriage in South Asia: The Case of India and Bangladesh

Farah Salsabila Firdaus and Ella Syafputri Prihatini, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 545 Colorism "Ideology": The Legacy of Colonial Mentality in The Jakarta's Gen-Z Mixed-Race

Dean Shabira Karunia and Aditya Permana, Department of International Relations, Faculty of Humanities, Bina Nusantara University, Kemanggis, Kec. Palmerah, Kota Jakarta Barat, Daerah Khusus Ibukota Jakarta, Indonesia

ID 546 France -UK Joint Border Management in Dealing with the Phenomenon of Illegal Immigrants in 2003-2016

Dalilah Hisyam Abdat and Paramitaningrum, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 551 Learning Korean using Online Platforms Following the Success of “Squid Game” and during Pandemic Times

Rihla de Aisyah and Ella Prihatini, Department of International Relations, Faculty of Humanities, Bina Nusantara (BINUS) University, Jakarta, Indonesia

ID 553 Process Performance Improvement for an Elevator Construction Company

Edi Lynne L. Cruz, School of Industrial Engineering and Engineering Management, Mapua University Manila, Philippines
Grace Lorraine Intal, School of Information Technology, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

June 12 (Sunday) - Session: 10:00 am – 1:00 pm**Onsite Room 1 (Ballroom) / Virtual Room 1**

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

Keynote Speakers

Conference Welcome and Opening: Sunday, June 12, 2022, 10:00 – 10:20 am

Opening Keynote I: Sunday, June 12, 2022, 10:20 – 11:00 am

Dr. Randy Avent

President

Florida Polytechnic University

Florida, USA

Keynote II: Sunday, June 12, 2022, 11:00 – 11:40 am

Kay M. Stanney, Ph.D.

CEO and Founder, Design Interactive, Inc.

Member, National Academy of Engineering (NAE)

Orlando, Florida, USA

Keynote III: Sunday, June 12, 2022, 11:40 – 12:20 pm

Professor Alex Frino

Deputy Vice-Chancellor (Global Strategy)

University of Wollongong

Wollongong, NSW, Australia

Keynote IV: Sunday, June 12, 2022, 12:20 – 1:00 pm

Ms. Jessica Ascough

Chief Software Architect, AI Solutions Architect, Data Scientist

L3Harris Technologies

Florida, USA

1:00 – 2:00 pm – Lunch Break (Provided)**June 12 (Sunday) - Session: 2:00 – 3:45 pm**

2:00 – 3:45 pm, SUNDAY

Lean Six Sigma Panel

Onsite Room 1

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

Panel Chair:

Dave Harry

Black Belt Trainer / Kata Coach

President & CEO

Process Whisperer® Consultants LLC

Greeneville, TN, USA

2:00 pm – 2:15 pm

Dr. Cindy Young, PMP, LSS MBB, CMQ-OE
Founder/CEO
CJ Young Consulting LLC
Chesapeake, Virginia USA

2:15 pm – 2:30 pm

Terra Vanzant Stern, PhD
LSS MBB, PMP®
CEO of Simple, Smart, Decision-Making dba SSD Global Solutions
Conifer, Colorado USA

2:30 pm – 2:45 pm

Ms. Vic Wilson, LSS MBB, PMP, Agile PM
CEO
Vic Wilson Consulting LLC
Hertford, NC USA

2:45 pm – 3:00 pm

Patricia (Pat) Tyre, PMP®, ACP, PSM, LSSMBB
Managing Director
Business Excellent Group, Inc.
Norwalk, Connecticut, USA

2:00 – 3:45 pm, SUNDAY

Global Engineering Education II

Onsite Room 2

Special Session on Higher Education in Technology Management

Session 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

Speakers

Dr. Kamal Shahrabi
President and Dean of Faculty
RIT Kosovo (A.U.K)

Dr. Arezou Harraf
Head of the Department of Business Studies
Box Hill College Kuwait
Kuwait

Aixi Zhou, PhD, PE, FSFPE
Chair and Professor
Dept. of Applied Engineering Technology
College of Science and Technology
North Carolina A&T State University
Greensboro, NC, USA

Title: Equipping Technology Management Students with Advantageous Technical Skills

2:00 – 3:45 pm, SUNDAY

Competitions

Onsite Room 3

Session Chair: Dr. Hayder Zghair, Southern Arkansas State University

Lean Six Sigma Competition

ID 186 Lean Healthcare Transformation Model: Success story from Oman

Yousuf Al Khamisi, Sultan Qaboos University, Oman

ID 514 Product Development by Means of Industrial-Design Structure (IDeS) Method. Studies for Future Mobility Solutions

Christian Leon-Cardenas, Leonardo Frizziero, Giulio Galiè, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna
Viale Risorgimento, Bologna, Italy
Ahad Ali and Don Reimer, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University

ID 554 Case Study on Using a Time Study Project to Improve Manufacturing Efficiency and Safety

Dr. Mahmoud Al-Odeh, Professor, School of Technology, Bemidji State University, Bemidji, MN, USA

Supply Chain and Logistics Competition**ID 337 A Hierarchical Fuzzy TOPSIS Methodology for Chain Store Location Selection with a Case Study in Ofogh Kourosh Chain Stores during COVID-19 Pandemic**

Seyed Sina Miri Nargesi, Department of Industrial Engineering, Faculty of Engineering, Islamic Azad University, Science & Research Branch, Tehran, Iran

Hamidreza Mozaffari Gilani, Department of Civil Engineering, Semnan Branch, Islamic Azad University, Semnan, Iran

Commercial Deputy of CEO, Ofogh Kourosh Chain Stores, Iran

ID 345 Marketing Sustainability Investment

Wenqing Zhang, Yorkville University, Canada

Doctoral Dissertation Competition**ID 346 Navigating with Sharks: How the Persuasive Usability Framework Help To Create Successful Phishing Emails**

Erica Castilho-Grao, Graduate Researcher, Department of Industrial Engineering and Management Systems, University of Central Florida Orlando, Florida, USA

2:00 – 3:45 pm, SUNDAY**Engineering Education****Virtual Room 4**

Session Chair: Albertus Retnanto, Texas A&M University at Qatar

Zoom Host: Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID Using RSM Methodology on Aluminium 6061

Rahul Ponnaluri, Samireddy Ganesh, Vanaparthi Shanmukeshwara Rao, Gopiseti Sai Naga Mahesh Kumar and Mycharla Leela Manohar, UG students, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

Ch. Siva Ramakrishna, Associate Professor, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India

ID 90 Systematic Improvement of a Product: A Case Study in Engineering Design Education

Karl Hain and Christoph Rappl, Faculty of Mechanical Engineering and Mechatronics, DIT Deggendorf Institute of Technology, Deggendorf, Bavaria, Germany

ID 320 Is an Academic Degree Required for a Successful Product Manager?

Murad Andejany, Associate Professor, University of Jeddah, College of Engineering, Department of Industrial and Systems Engineering, Jeddah, Saudi Arabia

ID 121 Integration Between Islamic Studies and Wash Entrepreneurship Is A Key Factor to Achieve Social-Environmental Impact; Case Study of Jordan

Authors: Motaz Al-Thaher, PhD. Student - Kulliyah of Islamic Revealed Knowledge and Human Sciences, International Islamic University of Malaysia, Selangor - Malaysia

Operation Manager - SOLVillion, Amman - Jordan

Aia Abul-Haj, Master Student - Kulliyah of Architecture and built Environment, Business Development Manager - SOLVillion, Amman - Jordan

ID 150 Clinical Engineering: Curriculum Development at Miami University

Lei Kerr and Shashi Lalvani, Professor, Chemical, Paper and Biomedical Engineering, Miami University, Oxford, OH

ID 463 Synchronous vs. Face-to-Face Instructions: A Comparative Study and Some Lessons Learned of Teaching Undergraduate Engineering Subject in the US vs. Overseas

Albertus Retnanto, Ph.D., Professor, Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar

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

Boback Parsaei, Integrated Technology Systems, Inc., Houston, Texas, USA

June 12 (Sunday) - Session: 4:00 – 5:45 pm – Room 1**Presidential Panel on the Future of the IEOM Discipline**

Panel Chair:

Dr. Abu Masud, P.E.

Emeritus Professor

Department of Industrial and Manufacturing Engineering

Wichita State University

Kansas, USA

Panel Co-Chair:

Hamid Parsaei Professor Hamid Parsaei, Ph.D., PE

Fellow, IISE, ASEE, SME, IEOM

Professor, Department of Industrial and Systems Engineering

Interim Director, College of Engineering Accreditation and Assessment
Texas A&M University
College Station, Texas, USA
IEOM President, 2021-2023; IEOM Vice President, 2019-2021

Panel Speakers

Dr. Waldemar Karwowski
Pegasus Professor and Chairman
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, Florida, USA

Dr. Shahram Taj
Chair and Professor
Department of Data Science & Business Analytics
Florida Polytechnic University
Lakeland, FL, USA

Dr. Abdelaziz Berrado
Professor and Chair, Department of Industrial Engineering
The Ecole Mohammadia d'Ingénieurs (EMI)
Rabat, Morocco

4:00 – 5:45 pm, SUNDAY

Technical Presentations

Onsite Room 3

Session Chair: Dr. Hayder Zghair, Southern Arkansas State University

Open Onsite Session

June 13 (Monday)

June 13 (Monday) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, MONDAY

Innovation

Virtual Room 1

Session Chair: Mohamad Trio Febriyartoro, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Batu Pahat, Malaysia

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 234 Scientometric Analysis of Digital Entrepreneurship Through Bibliometric Visualizing in the Last 20 Years

Fairuz Iqbal Maulana, Computer Science Department, Bina Nusantara University, Jakarta, Indonesia

Agung Purnomo and Febby Candra Pratama, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Vandha Pradwiyasma Widartha, Information System of Industrial Engineering Faculty, Telkom University, Bandung, Indonesia

Rahman Arifuddin, Department of Electrical Engineering, University of Merdeka Malang, Malang, Indonesia

ID 253 The Role of Entrepreneurial Marketing on Business Performance Mediated by Competitive Advantage for MSMEs in Indonesia

Mohamad Trio Febriyartoro, Juzaimi Nasuredin and Umi Kartini Rashid, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Batu Pahat, Malaysia

ID 254 The Effect of Entrepreneurial Marketing on Business Performance Moderated by Environmental Turbulence on MSMEs in Indonesia

Mohamad Trio Febriyartoro, Juzaimi Nasuredin and Umi Kartini Rashid, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, 86400 Batu Pahat, Malaysia

ID 306 Analysis on the Impact and Needs of Entrepreneurial Ecosystem from Creativepreneurship Students at Binus Bandung

Puji Prabowo, Imanda Dea Sabiella, Yuda S. Sjaerodji, Jessica Chiedi and Cindy Dewi Waluya, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 310 Creative Ecosystem for Supporting Entrepreneurial Skill

Puji Prabowo and Yuda S. Sjaerodji, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 323 Patterns of MSMEs in Finding Business Opportunities

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 324 Reduce fat device

Rodrigo, Arenal Tec, Mexico

6:00 – 7:45 am, MONDAY

Entrepreneurship

Virtual Room 2

Session Chair: Azlina Abu Bakar @ Mohd, Faculty of Human Development, Sultan Idris Education University, Perak, Malaysia

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 112 Towards the Development of MetaMed: A Blockchain-based EHR System Integrated with a Browser-based Web Application for Interhospital Communication and Patient Data Ownership Empowerment

Mary Jane C. Samonte, School of Information Technology, Mapúa University, Manila, Philippines

Jim Daniel A. Giron, Ma. Michelle A. Pantoja and Angela Marie D. Tobias, School of Information Technology, Mapua University, Manila, Philippines

ID 202 User Interface Design Review of The Waste Manager Application "Octopus"

Lutfi Tri Atmaji, Hindam Basith Rafiqi, Safitri Aprillia Putri, Donna Carolina, Uzda Nabila Shabiriani, and Wahyu Kurnia Dewi, Visual Communication Design, Department of School of Design, Jakarta, Indonesia

ID 206 Design and Content Validity on Teachers' Observation Behavior Checklist for Biomorphic Art Implementation in Mentor and Mentee Program

Mohammad Hazim Amir Nordin and Azlina Abu Bakar @ Mohd, Faculty of Human Development, Sultan Idris Education University, Perak, Malaysia

ID 291 Integration of Conjoint Analysis and Quality Function Deployment for Design Development of Battery Electric Vehicle in Indonesia

Rayner Andreas Purba and Dendi P. Ishak, Department of Industrial Engineering, University of Indonesia, Depok, Indonesia

ID 187 Designing a Performance Management System for the Digital Transformation of the Indonesian Banking Industry

Abdurrahman, Doctoral Student of Science in Management, School of Business and Management, Bandung Institute of Technology, Bandung, Indonesia

Department of Information System, STMIK Bandung, Bandung, Indonesia

Aurik Gutomo, Dermawan Wibisono and Eko Agus Prasetyo, School of Business and Management, Bandung Institute of Technology, Bandung, Indonesia

ID 201 Development of Mobile Application Indonesia Halal Tourism

Mita Purbasari Wahidiat and Donna Carolina, Visual Communication Design, Department of School of Design, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer of Science, Department of School of Computer Science, Jakarta, Indonesia

Faizal Ardiansyah, Bina Nusantara University, Jakarta, Indonesia

ID 438 Digital Transformation in the Property Management Industry: A Systematic Literature Review

Prasetya Cahya S, Information Systems Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia

Arief Ramadhan, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, MONDAY**Case Studies****Virtual Room 3**

Session Chair: Aamar Shabir, Department of Electrical and Computer Engineering, Florida Polytechnic University, Lakeland, Florida, USA

Zoom Host: Karthik Dhandapani, MSIE Program, Lawrence Tech, Michigan, USA

ID 570 Service Quality's Influence on Loyalty with Satisfaction as Variable Mediation, on E-Commerce Shopee Customers

Ridho Chairian, Mahendra Fakhri and Hanifah Putri Elisa, School of Communication and Business Telkom University, Bandung, Indonesia

ID 571 The Effect of Discounts on Interest, Election, and Satisfaction with Shopee Food Services

Giovanni Anggasta Aryasatya and Mahendra Fakhri, School of Communication and Business Telkom University, Bandung, Indonesia

ID 574 Sales of Imported Goods during the Pandemic in Cimol Gedebage Bandung Market

Izmy Wulandari and Anita Silvianita, School of Communication and Business Telkom University, Bandung, Indonesia

ID 548 System Improvement of Maintenance Procedure for MB Manufacturing LLC

Eunike D. Salazar and Grace Lorraine Intal, School of Industrial Engineering and Engineering, Management, Mapúa University, Intramuros, Manila, Philippines

ID 583 Investigation of the Emerging Materials Based High-Efficiency CdTe Solar Cell

Aamar Shabir and Muhammad Ullah, Department of Electrical and Computer Engineering, Florida Polytechnic University, Lakeland, Florida, USA

ID 547 Gender and COVID-19 Vaccines in the Media: Evidence from Indonesia

Agnes Isna Kuswondo and Ella Syafputri Prihatini, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, MONDAY**Data Analytics****Virtual Room 4**

Session Chair: Manuel Freire, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador

Zoom Host: Martina Marruganti, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 480 Factors Affecting Internet Financial Reporting on Banks Listed on Indonesian Stock Exchange 2013-2017

Marsia Michelle, Teddy Lim and Aries Wicaksono, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 484 Analysis of Factors Influencing IPO Underpricing on Companies Listed in Indonesia Stock Exchange

Ilgen Meilinda and Yen Sun, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 485 Effect of Financial Performance and Investment Opportunity Set on Accounting Conservatism in Consumption Goods Manufacturing Companies Listed on Indonesia Stock Exchange (2014-2016)

Martias Ceasia Bagaskara and Pariang Siagian, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 448 Implementation of Augmented House of Quality in Designing Multifunction Bag for Bicycle

Ezra Peranginangin, Assistant Professor, Industrial Engineering Department, Binus University, Jakarta, Indonesia
Putri Melinda, Industrial Engineering Department, Binus University, Jakarta, Indonesia

ID 470 The Effect of Emotional Intelligence and Cognitive Ability on Project Manager Success and Gender as The Moderator

Aliyah Nurjannah Aswin, Youngky Pratama and Tinjung Desy Nursanti, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 152 Experimental Analysis Using Design of Experiments Methodology to Minimize the Power Loss and Response Delay in Electric Circuits –A Case Study on NPN Circuit

P. Harisha, Assistant Professor, Department of Mechanical Engineering, Vignan's Institute of Information Technology, Visakhapatnam, India.
Shabhana Assistant Professor, Department of Mechanical Engineering, GITAM University, Visakhapatnam, India.

ID 327 Design and Implementation of a Selective Attention Computerized Test

Catalina Astudillo-Rodriguez and Patricia Ortega-Chasi, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
Martha Cobos and Alexandra Bueno, Psychology School, Universidad del Azuay, Cuenca, Ecuador
Manuel Freire, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador

6:00 – 7:45 am, MONDAY**Business Management****Virtual Room 5**

Session Chair: Fernando Romana, Atlântica, Portugal
Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 353 Financial Performance of Indonesian Banking Industry: Do liquidity, asset quality and capital matter?

Firly Irhamni, Denis Fidita Karya, Mohamad Yusak Anshori and Rizki Amalia Elfita, Faculty of Economic, Business and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Indonesia

ID 354 The Role of CSR Disclosure as Moderation on the Relationship between Environmental Performance and Corporate Financial Performance

Firly Irhamni, Mohamad Yusak Anshori, Denis Fidita Karya and Rizki Amalia Elfita, Faculty of Economic, Business and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Indonesia

ID 398 Business Strategy to Develop New Integrated Logistic Base Case of Pt Pertamina Trans Kontinental

Steven Romario Temanta Tarigana and Yudo Anggorob, School of Business and Management, Institut Teknologi Bandung, Indonesia

ID 404 Improving E-Commerce Adoption Through Behaviour Influence and Organizational Culture

Dicky Hida Syahchari and Diena Dwidienawati, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Yopy Maulana, Tourism Destination Department, Faculty of Digital Communication and Hospitality and Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 428 How Transformational Leadership influences Individual Resilience and Team Resilience in Project Management

Diena Dwidienawati, Mohammad Ichsan and Dicky Hida Syahchari, Management Program, BINUS Business School Undergraduate Program Bina Nusantara University, Jakarta, Indonesia

ID 443 Fostering SMEs Performance Through Entrepreneurial Capability and Technology Innovation

Dicky Hida Syahchari, Engkos Achmad Kuncoro and Hardijanto Saroso, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia

ID 461 Analyzing and Prioritizing the Enablers of Online Impulse Buying Behavior: Application of SOR Theory

Vaibhav Sharma and Akash Saharan, Ph.D. Research Scholar, Jindal Global Business School, O. P. Jindal Global University, India
Ateequr Rahman, Ph.D. Research Scholar, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India
K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan

ID 21 Business Process of Small and Medium Portuguese Family Businesses A Reindustrialization Case Study

Fernando Romana, Atlântica, Portugal

6:00 – 7:45 am, MONDAY**Data Analytics****Virtual Room 6**

Session Chair: H.P.N. Hettiarachchi, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka
Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 19 Dry Bean Classification using Machine Learning Techniques

Julekha Hussain Ranta, Graduate Student, Department of Computational Engineering, Mississippi State University, Starkville, Mississippi, USA
Fahmida Islam, Graduate Student, Department of Electrical and Computer Engineering, Mississippi State University, Starkville, Mississippi, USA
Raed Jaradat, Associate Professor, Department of Industrial & Systems Engineering, Mississippi State University, Starkville, Mississippi, USA
Terril C. Falls, Associate Director, Institute for Systems Engineering Research (ISER), Mississippi State University, Starkville, Mississippi, USA

ID 59 Data Science and Analytics: A Data Driven Decision Making Approach for Business and Engineering

Amar Sahay, Ph.D.

ID 91 Forecasting of Liquefied Petroleum Gas (LPG) Refilling Plant Sales in Time Series Using Statistical Approaches and Machine Learning Techniques

J.S.B. Geronimo and M.J.C. Samonte, MAPUA University, Philippines

ID 197 Analyzing Storynomics Research with Bibliometric Approach

Donna Carolina, Visual Communication Design, Department of School of Design, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer of Science, Department of School of Computer Science, Jakarta, Indonesia

Bigraf Triangga and Helena Hanindya Kartika Putri, Entrepreneurship Business Creation, Department of Business School, Bina Nusantara University, Jakarta, Indonesia

ID 209 Non-Fungible Token (NFT) Overview Research Trends

R Aditya Kristamtomo P, Visual Communication Design, Department of School of Design, Bina Nusantara University, Jakarta, Indonesia

Donna Carolina, Computer of Science, Department of School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Entrepreneurship Business Creation, Department of Business School, Bina Nusantara University, Jakarta, Indonesia

ID 75 Reducing Imposter Detection Time of Web Applications Using Continuous Authentication

H.P.N. Hettiarachchi, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

ID 130 Social Engineering Attack Awareness and Preparation Training Program Design: A Case study

Celestial, Alexandra Mikaela G., Gonzales, Jeze D., Medina, Emmanuel Carlos T., Seguin, Eugene B. and Blancaflor, Eric B., School of Information Technology, Mapua Univ. Makati, Philippines

6:00 – 7:45 am, MONDAY**Business Management****Virtual Room 7**

Session Chair:

Zoom Host: Christian Leon-Cardenas, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 604 Comparison of Excavators based on Productivity for Land Excavation Work in a Toll Road Project

W. Ilahi, A. B. Putra and C.A. Palevi, Civil Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 605 Implementation of Smart Home Technology in Notary Office to Enhance Client Trust

Aditya Zaidan Falah, Andi Pramono, Elizabeth Phoebe Jead and Lucretia Jessica Miranda Setiawan, Interior Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

ID 606 ATUMICS Approach to Preserve Candi Kidal's Relief for Sustainability a Cultural Heritage Site

Andi Pramono and Ida Bagus Ananta Wijaya, Interior Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

ID 607 Sustainable Performance: Understanding the Concept of Consumer Trust to E-Commerce

Doni Purnama Alamsyah, Sandy Setiawan and Mira Rustine, Entrepreneurship Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Indonesia

ID 608 Developing Foot Lock for Public Toilet Facilities

Agustina Christiani and Shem Lemuel, Industrial Engineering Study Program, Universitas Pelita Harapan, Lippo Village, Tangerang, Indonesia

ID 609 Community Participation in Urban Development in Realizing an Elderly Friendly City in Indonesia

Wahyu Sardjono, Information Systems Management Department, BINUS Graduate Program – Master of Information Systems Management, Bina Nusantara University, Indonesia

Haryoto Kusnopranto, Professor, Department of Environmental Health, Faculty of Public Health, University of Indonesia, Indonesia

Johan, School of Information systems, Bina Nusantara University, Indonesia

Samudra Sukardi, Post Graduate Program, Study Program of Management Science, Faculty of Economic and Business, University of Indonesia, Indonesia

ID 610 Flight Operation Efficiency through Improved Passenger Baggage Tracking Services

Wahyu Sardjono, Information Systems Management Department, BINUS Graduate Program – Master of Information Systems Management, Bina Nusantara University, Indonesia

Haryoto Kusnopranto, Professor, Department of Environmental Health, Faculty of Public Health, University of Indonesia, Indonesia

Johan, School of Information systems, Bina Nusantara University, Indonesia

Hargo Utomo, Department of Management, Faculty of Economics and Business, Universitas Gadjah Mada, Indonesia

Samudra Sukardi, Post Graduate Program, Study Program of Management Science, Faculty of Economic and Business, University of Indonesia, Indonesia

ID 611 Performance Measurement Model of Environmentally Friendly Service Quality to Customer Using System Dynamics Approach

Wahyu Sardjono, Information Systems Management Department, BINUS Graduate Program – Master of Information Systems Management, Bina Nusantara University, Indonesia

Haryoto Kusnopranto, Professor, Department of Environmental Health, Faculty of Public Health, University of Indonesia, Indonesia

Johan, School of Information systems, Bina Nusantara University, Indonesia

Hargo Utomo, Department of Management, Faculty of Economics and Business, Universitas Gadjah Mada, Indonesia

Samudra Sukardi, Post Graduate Program, Study Program of Management Science, Faculty of Economic and Business, University of Indonesia, Indonesia

ID 619 The Relationship between House Prices and Economic Growth in Malaysia: An Empirical Analysis

Saima Afsheen, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

Dr. Mohd Lizam Mohd Diah, Professor (Associate), Department of Real Estate Management, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

June 13 (Monday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY**Plenary II****Onsite Room 1**

Session Chair: Paul Odomirok

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

8:00 am – 8:30 am (Monday, June 13)

Eric Ayanegui, CPMM, CRL
 Director Operations Engineering
 Cintas Corporation
 Houston, Texas, USA

8:30 am – 9:00 am (Monday, June 13)

Joseph Akyeampong, PhD
 Human Factors Engineering Consultant
 Amgen
 Fort Lauderdale, Florida, United States

9:00 am – 9:30 am (Monday, June 13)

Paul Odomirok
 President and CEO
 Performance Excellence Associates, Inc.
 St Augustine, Florida, USA

8:00 – 9:45 am, MONDAY**Industry Solutions I****Onsite Room 2**

Session Chair: Dr. James Mennie, Florida Polytechnic University

Zoom Host:

8:00 pm – 8:20 am

Youssif Al-Nashif, Ph.D.
 Computer Science
 Florida Polytechnic University
 Lakeland, Florida, USA

8:20 pm – 8:40 am

Dr. James Mennie
 FIPR Business Director
 Florida Polytechnic University
 Lakeland, Florida, USA

8:40 am – 9:00 am

Mustafa Ilhan Akbas, Ph.D.
 Computer Science Department
 Embry-Riddle Aeronautical University
 Daytona Beach, Florida, USA

9:00 am – 9:20 am

Ala' J. Alnaser, Ph.D.
 Applied Mathematics
 Florida Polytechnic University
 Lakeland, Florida, USA

9:20 am – 9:40 am

Amy Augustyniak
 Senior Manager, Supply Chain Analytics
 SaddleCreek Logistics
 Lakeland, Florida, USA

8:00 – 9:45 am, MONDAY**Operations Management****Onsite Room 3**

Session Chair: Husam Kaid, King Saud University, Saudi Arabia

ID 66 A collective approach for the integration of corporate social responsibility in SMEs and proposal of a grid of indicators specific to SMEs

Anissa Frini, Management science department, Université of Québec at Rimouski, Quebec, Canada

ID 252 Globalization Balancing Drivers and Network Resilience Practice in the Digital Transformation Era: An Empirical Study

Xiyue Deng, Assistant Professor, Management and Marketing Department, Southern Illinois University – Edwardsville, Edwardsville, IL, USA

ID 232 Jointly Integrated Imperfect Maintenance to Energy Production Strategy for Wind Turbine System

Zied Hajej, A. Professor, LGIPM, Lorraine University, Metz, France

Nidhal Rezg, Professor, LGIPM, Lorraine University, Metz, France

ID 78 The Economic Logic of Open Science in Large-Scale International Projects

Marco Vincenzi, Senior Lecturer, Department of Economics, Peter T. Paul College of Business and Economics, University of New Hampshire Durham, New Hampshire, USA

ID 95 An effective Hybrid Petri net and Tabu Search for Parallel Machines Scheduling with Availability Constraint

Husam Kaid, King Saud University, Saudi Arabia

8:00 – 9:45 am, MONDAY

e-Business, e-Manufacturing and IT

Virtual Room 4

Session Chair: Hanan Majri, NUMERIX Laboratory, University of Quebec, École de Technologie Supérieure, Montreal, Quebec, Canada

Zoom Host: Martina Marruganti, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 198 Analysis of the Impact of Mobile-Based Property Management Applications Implementation on Service Satisfaction for Middle-Class Apartment in Jakarta

Prasetya Cahya S, Information Systems Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia

ID 421 Driving Factors Analysis of the Continuance Intention and Brand Loyalty of the Mobile Food Ordering Application

Cindy Natasha Lalita and Amalia Suzianti, Department of Industrial Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 373 Facing the Pandemic through IMC: Wedding Organizers' Social Media Strategy

Eflina Nurdini Febrita Mona, Anindya Widita and Natasha Bellinda, Public Relations Department, Faculty of Digital Communication and Hotel & Tourism Bina Nusantara University, Jakarta, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 454 The Role of Digital Transformation in Improving Service Quality and Brand Awareness Through the Utilization Social Media During Pandemic at the Indonesia University Hospital

Sandi Bakti, Zulkarnain, Department of Industrial Engineering, Universitas Indonesia

ID 240 Human cognitive behavior and its effects in production and quality control activities

Hanan Majri, Department of Industrial Engineering and Management Systems, NUMERIX Laboratory, University of Quebec, École de Technologie Supérieure, Notre Dame Street West, Montreal, Quebec, Canada

Jean-Pierre Kenne, Mechanical Engineering Department, NUMERIX Laboratory, University of Quebec, École de Technologie Supérieure, Notre Dame Street West, Montreal, Quebec, Canada

ID 355 Vision-Based Printed Circuit Board Inspection

M. B. Kiran, Associate Professor, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, INDIA

ID 566 The Impact of Indonesia's Government Tin Policies Sn 99,9% Towards the Global Market

Adinda Dewi Saputri Inten Nuryati and Roseno Aji Affandi, International Relations, Bina Nusantara University, Jakarta, Indonesia

8:00 – 9:45 am, MONDAY

Case Studies

Virtual Room 5

Session Chair: Eric Blancaflor, School of Information Technology, Mapua University, Philippines

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 111 Towards the Development of a Web-Based Application for Chronic Pain Management Using Persuasive Technology

Mary Jane C. Samonte, School of Information Technology, Mapua University, Manila, Philippines

Alexandra Mikaela G. Celestial, Emmanuel Carlos T. Medina and Karl Samuel D. San Juan, School of Information Technology, Mapua University, Manila, Philippines

ID 132 Analyzing Digital Game Distribution in Gaming Industry: A case study

Jan Martin Gomez San Miguel and Dr. Eric Blancaflor, School of Information Technology, Mapua University, Philippines

ID 195 Project Performance Analysis of Document Digitalization Projects (A Case Study)

Kirana Rukmayuninda Ririh, Eko Rachmat Julianto and Desinta Rahayu Ningtyas, Department of Industrial Engineering, Pancasila University Jakarta Selatan, Indonesia

Aulia Fashanah Hadining, Industrial Engineering Department, Engineering Faculty, Universitas Singaperbangsa Karawang, West Java, Indonesia

ID 239 Classification of Printing Ink Quality based on Pigment Dispersion Process: A Case Study

Muhammad Sopyan Yahya and Isti Surjandari, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 269 Business Continuity and Disaster Recovery Plan for Banking Industry in Indonesia

Siti Hiererra, Bina Nusantara University, Indonesia

ID 300 Teacher's Well-Being and Teachers' Sense of Efficacy among College Teachers in Ningxia: Application of Positive Psychology

Zhang Guoying, Student, Faculty of Human Development, Sultan Idris Education University (UPSI), Tanjong Malim, Perak, Malaysia
Azlina Abu Bakar, Professor, Faculty of Human Development, Sultan Idris Education University (UPSI), Tanjong Malim, Perak, Malaysia

ID 309 The Roles of Agricultural Industries in Japan: An Economic Analysis

Ubaidillah Zuhdi, Rizqi Putri Nourma Budiarti and Agung Firmansyah, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya, East Java, Indonesia
Yohan Kurniawan, Faculty of Language Studies and Human Development, Universiti Malaysia Kelantan, Bachok, Kelantan, Malaysia

8:00 – 9:45 am, MONDAY

Operations Research

Virtual Room 6

Session Chair: Joseph Kerlin, Mississippi State University, United States

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 16 Two Formulations for Minimizing Weight-Distance Objective In Single Vehicle Routing Problem With Quadratic, Cubic Objective Function And Its Linearization

RRK Sharma, Dept of IME IIT Kanpur, India
Vinay Singh, IIITM Gwalior, India
KK Lai, President, CYUT, Taiwan

ID 32 An optimization model for the maintenance programming of urban green area

Leonardo Gabriel Hernández Landa, Arlethe Aguilar Villareal and Argelia Vargas Moreno, Professor, Department of Industrial engineer and management, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, México

ID 261 Procurement Costs Optimization in The Construction Industry with CRITIC-EDAS Approach and Transshipment Model

Naufal D. Aditia and Dendi P. Ishak, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 414 A Great Deluge Algorithm for University Examination Timetabling Problem

Lnasya Syafitrie, Komarudin, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 423 Multi-Period Vehicle Routing Problem with Cross-Docking using Split Pickups and Deliveries

Muhammad Mustafa Ismail Turner and Komarudin, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Depok, Indonesia

ID 34 Optimizing Realistic Responses from Civilians in Active Shooter Incidents

Joseph Kerlin, Mississippi State University, United States

ID 458 Improving Webservice REST API Performances Using Design Patterns: A case in Healthcare Business Intelligence Systems

Devita Dwitama Putri Baron, Faiza Renaldi and Irma Santikarama, Department of Informatics, Universitas Jenderal Achmad Yani, Cimahi, Jawa Barat, Indonesia

June 13 (Monday) - Session: 10:00 am – 1:00 pm

Keynote Speakers – Ballroom / Virtual Room 1

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

10:00 – 10:20 am – Conference Chair Remarks

Keynote V: Monday, June 13, 2022, 10:20 – 11:00 am

Dr. Regiane Relva Romano

Professor and Head of Smart Cities at Facens

Advisor to Brazil's Ministry of Science, Technology, Innovation and Communication, Brazil

Keynote VI: Monday, June 13, 2022, 11:00 – 11:40 am

H.D. Pumbo Jr.

Maj Gen USAF (retired)

Founding Partner and Senior Consultant

Two Blue Aces LLC

Winter Haven, Florida, USA

Keynote VII: Monday, June 13, 2022, 11:40 – 12:20 pm

Dr. Duane Davis
Chief Physician Executive AdventHealth Institutes
Orlando, Florida, USA

Keynote VIII: Monday, June 13, 2022, 12:20 – 1:00 pm

Ms. Donna Slyster
Senior Vice President and CIO
Saddle Creek Logistics Services
Florida, United States

1:00 – 2:00 pm – Lunch Break (Provided)

June 13 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45, MONDAY

Onsite Room 1

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

WIIA Panel

Panel Chair:

Akashita Sareen
Engineer in the Operations Planning and Engineering department
FedEx Express
United States

Panel Speakers

Sheena Butts
Associate Vice President
Surgical and Procedural Services
Lakeland Regional Health

Susan LeFrancois, Ph.D
Data Science
Florida Polytechnic University

Amy Augustyniak
Senior Manager, Supply Chain Analytics
SaddleCreek Logistics

Sanna Siddiqui, Ph.D.
Mechanical Engineering
Florida Polytechnic University

2:00 – 3:45, MONDAY

Industry Solutions II

Onsite Room 2

Session Chair: Dr. Hayder Zghair, Southern Arkansas State University
Zoom Host:

1:40 pm – 2:00 pm

Dr. Ahmed Mohamed
Director of Solutions Engineering
Orlando Health, FL, USA

2:00 pm – 2:30 pm

Foad H Khanli
Director of Quality Assurance, Performance and Business Improvement
Amor Health Services, Inc.
Brownsville, Texas, USA

Risk Assessment Made Easy in Health Care Industry by Applying Lean Six Sigma Methodology – DMAIC

2:30 pm – 3:00 pm

3:00 pm – 3:20 pm

Onur Toker, Ph.D.
Electrical and Computer Engineering
Florida Polytechnic University
Lakeland, Florida, USA

3:20 pm – 3:40 pm

Arman Sargolzaei, Ph.D.
Mechanical Engineering, Resilient, Autonomous, Networked Control Systems
Tennessee Tech University
Cookeville, Tennessee, USA

2:00 – 3:45, MONDAY

OR

Onsite Room 3

Session Chair: Dr. Hayder Zghair, Southern Arkansas State University
Zoom Host:

ID 60 Improving the Aggregate Production Planning by Considering the Congestion in Open Queuing Network

Dang Phi VanHai, PhD Candidate, Department of Industrial Engineering, Dalhousie University, Halifax, Nova Scotia, Canada
Uday Ventakadri and Claver Diallo,
Professor, Department of Industrial Engineering, Dalhousie University, Halifax, Nova Scotia, Canada
Tri Nguyen-Quang, Associate Professor, Department of Engineering, Faculty of Agriculture, Dalhousie University, Truro, Nova Scotia, Canada
Young Ki Chang, Assistant Professor, Department of Engineering, Faculty of Agriculture, Dalhousie University, Truro, Nova Scotia, Canada

ID 96 Hybrid Petri Nets and Tabu Search for Scheduling Optimization of Oil Refinery with Unreliable CDUs

Abdulrahman Al-Ahmari and Husam Kaid and Abdul-Aziz El-Tamimi, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh, Saudi Arabia
Zhiwu Li and NaiQi Wu and Yan Qiao, Intelligent Science and Systems, Macau University of Science and Technology, Macao, China

ID 274 Coloring Intersection Points of Line Segments

Boris Brimkov, Assistant Professor, Department of Mathematics and Statistics, Slippery Rock University, Slippery Rock, Pennsylvania, USA

ID 311 The Value-Focused Management Applied to Healthcare Organizations

Magda Morgado Soares and Bernardo Borges Pedrosa, Master's Degree Students, Department of Industrial and Entrepreneurial Engineering
Western Michigan University, Kalamazoo, USA

ID 396 Electricity Planning Models, Characteristics And Applications

Moses Jeremiah Barasa Kabeyi and Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban university of Technology, Durban, South Africa

2:00 – 3:45, MONDAY

Data Analytics

Virtual Room 4

Session Chair: Md Hasan Shahriar, Department of Computer Science, Virginia Polytechnic Institute and State University, Arlington, Virginia, USA.
Zoom Host: Martina Marruganti, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 316 Exploring Concept Drift in Technology by Twitter Streams Mining

Alptekin Durmusoglu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey
Mohamad Naci, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

ID 328 Predicting Bank Loan Eligibility Using Machine Learning Models and Comparison Analysis

Miraz Al Mamun, Department of Economics & Decision Sciences, University of South Dakota, Vermillion, South Dakota, USA
Afia Farjana and Muntasir Mamun, Department of Computer Science, University of South Dakota, Vermillion, South Dakota, USA

ID 411 Big Data Analytics and Performance Measurement in Public Sector Organization

Saad Aladyan, Dr. Shafiq Ahmed and Dr. Lotfi Hidri, Industrial Engineering Department, Collage of Engineering, King Saud University, Riyadh, Saudi Arabi

ID 17 Evaluation of the Particle Boards for the Construction Projects: A Hybrid MCDM Approach

Md. Tanvir Siraj and A. B. M. Mainul Bari, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Muhammad Rubayat Bin Shahadat, Department of Mechanical Engineering, Hajee Mohammad Danesh Science and Technology University, Dinajpur, Bangladesh
Noor A Masqur Islam, Department of Accounting Information System, Jahangirnagar University, Dhaka, Bangladesh

ID 28 A Fuzzy Interactive Approach for Socially Responsible Portfolios Selection

Yahya Hanine, Youssef Lamrani Alaoui and Mohamed Tkouat, Islamic Finance Engineering Laboratory, Laboratory of Applied Mathematical Studies and Research (LERMA), Mohammadia School of Engineering (EMI), Mohammed V University, Rabat, Morocco
Younes Lahrichi, Laboratory of Research in Finance (LAREF), ISCAE Business School, Casablanca, Morocco

ID 57 Prioritization of the Electrical Risk Factors in the Ready-Made Garment Industries of Bangladesh: A Hybrid MCDM Approach

Md. Tanvir Siraj and A. B. M. Mainul Bari, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

Md Hasan Shahriar, Department of Computer Science, Virginia Polytechnic Institute and State University, Arlington, Virginia, USA.

Md Faiaz Al Islam, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

2:00 – 3:45, MONDAY**Operations Management****Virtual Room 5**

Session Chair: Ateequr Rahman, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 79 Port Tampa Bay's Navigation of the COVID-19 Pandemic Using Situational Leadership

Deirdre Dixon, University of Tampa, United States

ID 160 A Survey of Radio Frequency Energy Harvesting Techniques: Towards Effective Powering of Mobile Device

Lukman Salihi, James Agajo, Bala Salihi and Supreme A. Okoh, Department of Telecommunication Engineering, School of Electrical Engineering and Technology, Federal University of Technology, Minna, Niger State, Nigeria

ID 343 Inspection of Additive Manufactured Spur Gears Using Machine Learning

M. B. Kiran, Associate Professor, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar,

ID 51 Cyclic Voltammetry and Characterization Studies of Electrodeposited Copper-Indium for Thin-Film Solar Cell Application

Leher Farooq, Al-Hasna Ghazi and Abdulrahman Yaqoub Alraeesi, Department of Chemical & Petroleum Engineering, United Arab Emirates University, Al Ain, UAE

ID 389 Identification and Elimination of various problems associated with Low Performance and Low efficiency of Water-Cooled Chiller by Root Cause Analysis

Mirang Manish Dabhi and M. B. Kiran, Mechanical Engineering Department, School of Technology, Pandit Deendayal Energy University, Gandhinagar, Gujarat, India

ID 407 Business Groups Affiliation and Long-Term Borrowing from Internal Networks: An Empirical Study

Ateequr Rahman, Ph.D. Research Scholar, School of Management & Entrepreneurship, Indian Institute of Technology, Jodhpur, India
Sonam Chawla, Assistant Professor, Department of Human Resource, Jindal Global Business School, O. P. Jindal Global University, India
K. K. Lai, Professor & Vice President, Department of Business Administration, Chaoyang University of Technology Taichung, Taiwan

2:00 – 3:45, MONDAY**DSS****Virtual Room 6**

Session Chair: Sadique S., Southern New Hampshire University (SNHU), Manchester, NH, USA

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 646 Techno-Economic Assessment for Geothermal Energy in Zimbabwe

N. Chikwama, Department of Chemical and Process Systems Engineering, School of Engineering and Technology, Harare Institute of Technology, Zimbabwe

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

ID 654 Parallel, Distributed and Federated Learning for applying PRIM in Big Data

Rym Nassih, Phd Student in Machine Learning, Research team AMIPS, Ecole Mohammadia d'Ingénieurs, Mohamed V University in Rabat, Morocco

Abdelaziz Berrado, Professor of Industrial Engineering, Research team AMIPS, Ecole Mohammadia d'Ingénieurs, Mohamed V University in Rabat, Morocco

ID 655 The Value-Focused Management Applied to Healthcare Organizations

Magda Morgado Soares and Bernardo Borges Pedrosa, Master's Degree Students, Department of Industrial and Entrepreneurial Engineering, Western Michigan University, Kalamazoo, MI, USA

ID 668 Performance of Heat Pipes Heat Exchanger Past Present and Future: A Review

Sadique S., School of Engineering, Technology and Aeronautics (SETA), Southern New Hampshire University (SNHU), Manchester, NH, USA

June 13 (Monday) - Session: 4:00 – 5:45 pm**4:00 – 5:45, MONDAY****Onsite Room 1**

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

Industry 4.0 Panel

Panel Chair

Lina Khan
Systems Engineer
Strategic Missile Defense
Lockheed Martin Space
Titusville, Florida, United States

Panel Speaker I

Cintia Zuccon Buffon
Industrial Engineer
Ocean Insight
Orlando, FL, USA

Panel Speaker II

Thomas Jones
Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

Panel Speaker III

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

Panel Speaker IV

Austin Taft
Mechanical Ground Support Engineer
Strategic Missile Defense
Lockheed Martin Space
Cape Canaveral, Florida, USA

4:00 – 5:45, MONDAY**Industry Solutions III****Onsite Room 2**

Session Chair: Aaron Rubel, Airbus Americas, Inc., Mobile, Alabama, USA

Zoom Host:

4:00 pm – 4:20 pm

Mike Turner
Global Manager for Design for Six Sigma (DFSS) in Operational Excellence (OpEx)
General Motors Company
Warren, Michigan, USA
Title of Presentation: Start-Up of a Six Sigma Program: People, Process and Predicaments

4:20 pm – 4:40 pm

Akashita Sareen
Engineer in the Operations Planning and Engineering department
FedEx Express
United States

4:40 pm – 5:00 pm

Thomas Jones
Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

5:00 pm – 5:20 pm

Aaron Rubel, M.S.E.M.
Head of Aircraft Maintenance Programs Development
Intellectual Property Focal Point
Airbus Americas, Inc.
Mobile, Alabama Engineering Center
Mobile, AL 36615, USA

June 14 (Tuesday)**June 14 (Tuesday) - Session: 6:00 – 7:45 am**

6:00 – 7:45 am, TUESDAY**Entrepreneurship****Virtual Room 1**

Session Chair: Dr Asha Bhatia, Director of Research, Universal Business School, Karjat. Maharashtra, India

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

ID 326 MSMEs' Choice of Places to Sell in the Pandemic Era

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 420 Entrepreneurial Ecosystem for Women Entrepreneurs: A Systematic Review for Future Research

Agung Purnomo and Thalea Christy Nathaniela, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mega Firdaus and Elsa Rosyidah, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

Dian Utami Sutiksno, Business Administration Department, Politeknik Negeri Ambon, Ambon, Indonesia

ID 425 Entrepreneurial Intention in Sustainable Entrepreneurship: A Systematic Literature Review

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nur Afia, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

Elsa Rosyidah, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

Teguh Pribadi Adinugroho, The Centre for Research and Human Resource Development, National Standardisation Agency of Indonesia – BSN Jakarta, Indonesia

ID 442 A Systematic Review of Entrepreneurial Orientation and Strategic Orientation in Small and Medium Enterprises

Agung Purnomo and Febby Candra Pratama, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nur Asitah, Basic Education Department, Universitas Negeri Malang, Malang, Indonesia

Elsa Rosyidah, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

ID 456 The Performance of Fashion Entrepreneurs in Bandung City with Gender as Moderating Variable

Lasmy, Management Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

ID 483 Analysis the Effect of Entrepreneurship and Innovation In Food And Beverage Smes In Jakarta

Nyoman Agus Dwi Wiratama, Muhammad Airlangga Rahmadi, Vincent Cahyadi and Sevenpri Candra, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 526 Assessment centres- Platform for Building leadership readiness

Nilanka Chatterjee, Program Director & CHRO, Universal Business School, Karjat. Maharashtra, India

Dr Asha Bhatia, Director of Research, Universal Business School, Karjat. Maharashtra, India

6:00 – 7:45 am, TUESDAY**E-Business/E-Service****Virtual Room 2**

Session Chair: Soheir Backar, Production Engineering Department, Faculty of Engineering Alexandria University, Alexandria, Egypt

Zoom Host: Yordanos Jewani, Florida Polytechnic University, Lakeland, Florida, USA

ID 188 Factors Affecting the Usage of Online Booking Sites: Comparative Analysis on Agoda, Booking, and Hotels

Klarence Emmanuel F. Decena and Madylaine G. Delfin, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 29 Does Communication Satisfaction and Employee Satisfaction Influence Customer Satisfaction, Customer Loyalty for Virtual Service Organizations?

Manar Soliman Mahmoud, Demonstrator, Department of Production and Industrial Engineering, Alexandria University, Alexandria, Egypt

Reem Alkadeem, Professor, Department of Production and Industrial Engineering, Alexandria University, Alexandria, Egypt

Soheir Backar, Associate Professor, Department of Production and Industrial Engineering, Alexandria University, Alexandria, Egypt

ID 56 The Influence of Communication Satisfaction and Employee Satisfaction on Customers of Virtual E-Organizations

Manar Soliman Mahmoud, Assistant Lecturer, Production Engineering Department, Faculty of Engineering Alexandria University, Alexandria, Egypt

Reem Alkadeem, Professor, Production Engineering Department, Faculty of Engineering Alexandria University, Alexandria, Egypt

Soheir Backar, Associate Professor, Production Engineering Department, Faculty of Engineering Alexandria University, Alexandria, Egypt

ID 119 Improve Small Medium Enterprise Performance with Big Data

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia,

Ade Fadli Fachrul, STTD Al Hikmah, Jakarta, Indonesia

Rajiv Dharma Mangruwa, Communication and Business-Telkom University, Bandung, Indonesia

Azman Hashim International Business School – University of Technology Malaysia, Malaysia

Muhammad Salman Al Farisi, Sekolah Tinggi Ekonomi Bisnis Syariah Bina Mandiri

Novingky Ferdinand, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Jakarta, Indonesia

Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia

Rizky Muslim Fadhilah Fachri, Data Science Cyber Security Swiss German University

ID 122 Block Chain Model for The Halal Tourism Industry to Ensure That Tourism Companies Provide Services According to Islamic Rules

Inayatulloh and Indra Kusumadi Hartono, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

Maisyarah Rahmi Hasan, Islamic Economic Law Department, Faculty of Sharia, Universitas Islam Negeri Sultan Aji Muhammad Idris Samarinda,

Muhammad Salman Al Farisi, Sekolah Tinggi Ekonomi Bisnis Syariah Bina Mandiri

Sawqi Saad El Hasan, Sekolah Tinggi Ekonomi Bisnis Islam Syari'ah Bina Mandiri.
Muhammad Abrar Kasmin Hutagalung, Universitas Potensi Utama

ID 123 Transparency of Covid 19 Vaccine Distribution Using Block Chain Technology Inayatulloh, Prasetya Cahya S and Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University
Jakarta, Indonesia
Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Reni Nuraeni, Communication Studies Program, Faculty of Communication and Business, Telkom University
Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia

ID 124 Government Assistance Monitoring Model for Social Assistance for Covid 19 Victims Based on Blockchain Technology
Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

ID 125 Integrated Model Knowledge Management System and E-Government to Improve Community Service
Inayatulloh, Prasetya Cahya S and Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University
Jakarta, Indonesia
Nico Djundharto Djajasinga, Politeknik Transportasi Darat Indonesia-STTD, Indonesia
Muhammad Raihan Adrul Kamal Fachrul, Faculty of Law Universitas Brawijaya
Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia
Sawqi Saad El Hasan, Sekolah Tinggi Ekonomi Bisnis Islam Syari'ah Bina Mandiri.
Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia

6:00 – 7:45 am, TUESDAY

Smart Systems

Virtual Room 3

Session Chair: Tayeb Brahimi, Effat University, Jeddah, Saudi Arabia
Zoom Host: Karthik Dhandapani, MSIE Program, Lawrence Tech, MI, USA

ID 549 The Influence of Online Platform on Satisfaction: Mediating Role of Online Shopping Experience

Sylvia Samuel, Department of Economics and Business, Universitas Pelita Harapan, Karawaci, Indonesia
Lianna Wijaya, Management Department, Faculty of Binus Online Learning, Bina Nusantara University,
Jakarta, Indonesia
Tiurida Lily Anita, Hotel Management Department, Faculty of Economic and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 557 Factors Analysis for Customer Behavior on The E-Commerce Platform in Thailand

Charukit Chaiwan and Sunida Tiwong, Business Excellence and Logistics Research Centre: BE-Logist, School of Management, Mae Fah Luang University, Chiang Rai, Thailand
Janista Theja Schenker and Thanyalak Ramkrathok, Logistics and Supply Chain Management, School of Management, Mae Fah Luang University, Chiang Rai, Thailand

ID 541 China's Turn to Twiplomacy: Efforts to Counter Negative Narratives Online

Irene Rahafi and Ella Syafputri Prihatini, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 564 Mapping and Visualizing Research Trend of Smart Farm with Internet of Things in the Last Ten Years using Bibliometric Analysis

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia
Agung Purnomo and Febby Candra Pratama, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Faizal Ardiansyah, Informatics Engineering Study Program, Faculty of Computer Science, Universitas Brawijaya, Malang, Indonesia

ID 540 Analysis of News Coverage on COVID-19 in Indonesia by Australian Media

Marlina Sugiarto and Ella Syafputri Prihatini, Ph.D., International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 550 Secured Smart City Using UUID Tracking System

Basymah Alshahrani, Bachelor Student, Department of Electrical and Computer Engineering, Effat University College of Engineering, Jeddah, Saudi Arabia
Tayeb Brahimi, Associate Professor at the College of Engineering, Energy and Technology Research Center, Natural Science, Natural Science, Mathematics and Technology Unit, Effat University, Jeddah, Saudi Arabia

6:00 – 7:45 am, TUESDAY

IoT

Virtual Room 4

Session Chair: Francis Rousseau, IoT & Industry 4.0 department, Uzinakod, Montréal, Canada
Zoom Host: Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 131 e-Bukid: a IoT Telemetry System With Automated Animal Feeder

John Daryl Aumentado, James Nathanael C. De Los Reyes, Mark Louie DJ. Dipad, Joshua Angelo Karl R. Perez, Wesley Mikhail C. Tolentino and Dr. Eric B. Blancaflor, School of Information Technology, Mapua University, Philippines

ID 235 Mapping and Visualization Research Trend of Supply Chain Digital Twin: A Bibliometric Review

Fairuz Iqbal Maulana, Computer Science Department, Bina Nusantara University, Jakarta, Indonesia
Raden Aditya Kristamtomo Putra, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Donna Carolina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia
Mohammad Nazir Arifin, Informatics Engineering Study Program, University of Madura, Pamekasan, Indonesia
Ridho Herasmara, Electrical Engineering, Faculty of Science and Technology, Raden Rahmat Islamic University, Malang, Indonesia

ID 265 IoT Messaging using Low-Cost COTS Devices

Francis Rousseau, IoT & Industry 4.0 department, Uzinakod, Montréal, Canada
Tony Wong, Systems Engineering Department, École de technologie supérieure, Montréal, Canada

ID 393 Bitcoin's Influence on China's Political Policy from a Realist Perspective

Muhammad Rifqi Fadhil and Roseno Aji Affandi, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

ID 462 The Practicality of the Internet of Underwater Things: MATLAB & Simulink AUV Application

Rabab Al Talib, Asmaa Alqurashi and Hala Fatayerji, Student, Department of Electrical and Computer Engineering, Effat University College of Engineering, Jeddah, Saudi Arabia

ID 476 The Effect of Transparency, Accountability, and Participation of Wise Netizens in Social Media (Facebook)

Rakha Abiyyu, Jennie Hesti Wijaya, Surya Nanda Marion and Synthia Atas Sari, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 477 The Effect of Transparency, Accountability, and Participation of Wise Netizens in Social Media (Facebook)

Rakha Abiyyu, Jennie Hesti Wijaya, Surya Nanda Marion and Synthia Atas Sari, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, TUESDAY**Case Studies****Virtual Room 5**

Session Chair: Mohd Hamidi Solahudin, Ministry of Education, Federal Government Administrative Centre, Putrajaya, Malaysia

Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 384 Improvement of Teaching Effectiveness for Autism Children

Norsuhaily Abu Bakar, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, Terengganu, Malaysia
 Zuraina Ali, Centre for Modern Languages, Universiti Malaysia Pahang, Pahang, Malaysia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia
 Zailani Jusoh, Faculty of Language and Communication, Universiti Sultan Zainal Abidin, Terengganu, Malaysia
 Mohammad Shaban Alsmadi, Faculty of Education Sciences, Irbid National University, Irbid, Jordan
 Mohd Hamidi Solahudin, Ministry of Education, Federal Government Administrative Centre, Putrajaya, Malaysia

ID 413 The Roles of Steel Industries in the National Economy: The Case of Japan

Ubaidillah Zuhdi, Rizqi Putri Nourma Budiarti and Agung Firmansyah, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya, East Java, Indonesia
 Yohan Kurniawan, Faculty of Language Studies and Human Development, Universiti Malaysia Kelantan, Bachok, Kelantan, Malaysia

ID 431 K-pop Idol Promoting Feminism in South Korea: A Case from Red Velvet

Samantha Septiani and Ella Prihatini, International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 664 Blockchain Technology Evaluation with Linguistic Variables: A Case for Smart Agriculture

Gülçin Büyüközkan, Professor, Department of Industrial Engineering, Galatasaray University, Ortaköy, Istanbul, Turkey
 Deniz Uztürk, Department of Management, Business Research Center, Galatasaray University, Ortaköy, Istanbul, Turkey

ID 676 The Role of Leadership Styles on Organizational Performance Through the Mediation Effect of Artificial Intelligence: A Conceptual Framework

Mansour Sulaiman Alshamisi and Aryani Binti Ahmad Latiffi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia.

ID 677 The Influence of Knowledge Management, Geospatial Thinking and Information Technology on Disaster Management in the UAE

Saif Ali Alblooshi and Mohd Yamani Bin Yahya, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia.

6:00 – 7:45 am, TUESDAY**Engineering Management****Virtual Room 6**

Session Chair: Mahmudul Hasan Porag, Dept of Manufacturing & Industrial Engineering, University of Texas Rio Grande Valley, Edinburg, Texas

Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 1 A MILP Model for Optimal Sizing of A Concentrating Solar Power Plant with Thermal Energy Storage

Ahmed M. Ghaithan, Assistant Professor, Construction Engineering & Management, King Fahd University of Petroleum & Minerals Dhahran, Saudi Arabia

ID 64 Improving the Supply Chain Efficiency Using DMAIC Process

Awsan Mohammed, Construction Engineering and Management Department, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

ID 72 Performance Evaluation of Supply Chain Management Based on SCOR Model: A Case Study of Halal Chicken Processing Industry in Upper Northern Region, Thailand

Adcharawadee Keawwandee and Chakthong Thongchattu, Department of Industrial Engineering, School of Engineering, University of Phayao, Phayao, Thailand

ID 223 Determining Factors of Financial System Stability (FSS) in Indonesia

Budi Santosa, Faculty of Economics and Business, Universitas Trisakti
 Kurniati Karim, Sekolah Tinggi Ilmu Ekonomi (STIE) Sakti Alam Kerinci, Jambi, Indonesia.
 Misdawita, Faculty of Economics and Business, Universitas Riau, Pekanbaru, Indonesia
 Nany Librianty, Universitas Pahlawan Tuanku Tambusai
 Dahlan Abdullah, Department of Informatics, Universitas Malikussaleh, Aceh, Indonesia
 Dedi Iskanto, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia

ID 287 Redesign Improved Customer Complaint Handling Time at Shipping Companies

Lutfiani, College Student, Department of of Industrial Engineering, University of Indonesia, UI Depok Campus, Indonesia
 Prof. Dr. Ir. Djoko Sihono Gabriel, MT, Lecturer, Department of of Industrial Engineering, University of Indonesia, UI Depok Campus, Indonesia
 Dr. Novandra Rhezza Pratama, ST, MT, Lecturer, Department of of Industrial Engineering, University of Indonesia, UI Depok Campus, Indonesia

ID 303 Qualitative Analysis About the Use of Frameworks and Best Practices for Project Management, A Systematic Literature Review

Alberto de Jesús Rodríguez Cuellar, Student of master's degree / Mechanical Engineer, Posgrados CIATEQ A.C. / Metal Fab Flex LTD
 Aguascalientes, Aguascalientes, México
 José Carlos Hernández-González, Research Associate in Logistics and Supply Chain / Specialized Engineer IT, electronics, and control., CIATEQ A.C., Villahermosa, Tabasco, México

ID 388 Gamma Distributed Three-stage Pricing model considering Uncertainty in Buyer's Readiness

Mahmudul Hasan Porag, Department of Manufacturing & Industrial Engineering, University of Texas Rio Grande Valley, Edinburg, Texas, USA

June 14 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY**Plenary III****Onsite Room 1**

Session Chair: Sandro Paz, Ph.D.

Zoom Host: Sai Abhijith Medavarapu, Master of Sciene in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

8:00 – 8:30 am (Tuesday, June 14)

Sagit Kedem-Yemini
 Logistics Department
 Sapir Academic College
 Sderot, Israel

Dr. Tali Freed
 Director, PolyGAIT-RFID Reseach and Development Center
 Professor, Industrial and Manufacturing Engineering Department
 California Polytechnic State University
 San Luis Obispo, California, USA

8:30 – 9:00 am (Tuesday, June 14)

Sandro Paz, Ph.D.
 Director of the Industrial Engineering Program – PUCP
 Former Director of University Accreditation
 Pontificia Universidad Catolica del Peru
 San Miguel, Peru

9:00 – 9:30 am (Tuesday, June 14)

Dave Harry
 Black Belt Trainer / Kata Coach
 President & CEO
 Process Whisperer® Consultants LLC
 Greeneville, TN, USA

8:00 – 9:45 am, TUESDAY**GSCM****Onsite Room 2**

Session Chair: Dr. Ahad Ali

Zoom Host:

Speaker I

Dr. Ahad Ali
 Associate Professor
 Director of Bachelor of Science in Industrial Engineering
 Director, Master of Science in Industrial Engineering
 Director, Graduate Certificate in Lean Six Sigma
 Director of Smart Manufacturing and Lean Systems Research Group
 A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
 Lawrence Technological University
 Southfield, Michigan, USA

8:00 – 9:45 am, TUESDAY**Modeling and Simulation****Onsite Room 3**

Session Chair: Çağlar S. Aksezer, Professor, Department of Industrial Engineering, Işık University, Istanbul, Turkey

ID 33 Mailroom Operation Improvement Using Simulation

Asnath Sethiel Mosha, Jack Krivitsky and M Ali Montazer, Department Mechanical and Industrial Engineering, University of New Haven, West Haven, CT, USA

ID 98 Learning Water Quality Functions from Data for Monitoring and Controlling Water Quality in Networks

Kia Zadeh, Industrial Engineering Ph.D. Student, School of Computing and Augmented Intelligence (SCAI), Arizona State University, Tempe, USA
 Trevor Boyer, Professor, School of Sustainable Engineering and the Built Environment, Arizona State University, Tempe, AZ, USA
 Pitu Mirchandani, Professor, School of Computing and Augmented Intelligence (SCAI), Arizona State University, Tempe, AZ, USA

ID 387 Toyota Kata, the “Secret Sauce” of the Toyota Production System

David A. Harry, Chief Executive Officer and Black Belt Trainer, Process Whisperer Consultants LLC, Former University of Tennessee, Knoxville
 Greeneville, Tennessee U.S.A.

ID 467 Modelling of a Hybrid Vehicle for Autonomous Vehicles Research

Ala J Alnaser, Onur Toker and Abigail Bowers, 1Department of Applied Mathematics, 2Department of Electrical and Computer Engineering
 Florida Polytechnic University, Lakeland, Florida, USA

ID 118 Medical Device Maintenance Strategy for Post Pandemic: Case on Ventilators

Çağlar S. Aksezer, Professor, Department of Industrial Engineering, Işık University, Istanbul, Turkey

ID 578 Development of Material Requirement Planning System for Snack Manufacturing Company

Sobhi Mejjaioli, Ph.D., Assistant Dean for Graduate Studies, & Research, MEM Master Program Director
 Assistant Professor of Industrial Engineering, Alfaisal University, Riyadh, Saudi Arabia
 Saad bin Saidan, Mohammed AlShuqayr and Al-Waleed Al-Babtain, Student, Department of Industrial Engineering, Alfaisal University, Riyadh, Saudi Arabia

ID 602 Identifying and Prioritizing the Factors Influencing the Customer Satisfaction / Customer Loyalty of Automobile After Sales Service Centres using Best Worst Method

Vigneshwaran. Sr and Mathirajan. M, Department of Management Studies, Indian Institute of Science, Bangalore, India

8:00 – 9:45 am, TUESDAY**Smart Mobility and Smart Cities****Virtual Room 4**

Session Chair: Galal M. Abdella, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar
 Zoom Host: Martina Marruganti, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 313 Urban logistics and smart solutions: a mixed transportation evaluation proposal

Dr Sara Amar, Assistant Professor, Liwa College of Technology, Abu Dhabi, UAE

ID 318 Intelligent mobility management System (IMMS): Scoping review

Sohaib Chengaou, Khalid El Yassini and Achraf Haibi, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
 Kenza Oufaska and Achraf Haibi, TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco

ID 412 Tourism Management in Smart City: A Systematic Review of Academic Research

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Hendro Nindito and Evaristus Didik Madyatmadja, Information Systems Department, School of Information Systems, Bina Nusantara University Jakarta, Indonesia
 Albert Verasius Dian Sano, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia
 Corinthias P.M. Sianipar, Department of Global Ecology, Graduate School of Global Environmental Studies (GSGES), Division of Environmental Science and Technology, Graduate School of Agriculture (GSA), Kyoto University, Kyoto, Japan

ID 415 A Systematic Review of Smart Tourism for Sustainable Tourism

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Albert Verasius Dian Sano, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia
 Evaristus Didik Madyatmadja and Hendro Nindito, Information Systems Department, School of Information Systems, Bina Nusantara University Jakarta, Indonesia
 Corinthias P.M. Sianipar, Department of Global Ecology, Graduate School of Global Environmental Studies (GSGES), Division of Environmental Science and Technology, Graduate School of Agriculture (GSA), Kyoto University, Kyoto, Japan

ID 497 Optimizing Electric Vehicle Charging Infrastructures: A Microscopic Review

Saeed Al-Muhammadi, Galal M. Abdella and Adeeb A. Kutty, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

ID 455 Life Cycle Cost for Micro, Small, and Medium-Sized Enterprises in the Indonesian Food Industry

Lia Nur Octavia and Isti Surjandari, Departement of Industrial Engineering, Universitas Indonesia, Depok, West Java, Indonesia

ID 449 The Role of Technology Readiness towards Technology Acceptance on Smartwatch Use

Romadoni Kevin Julian and Arian Dhini, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

8:00 – 9:45 am, TUESDAY**Case Studies****Virtual Room 5**

Session Chair: Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
 Zoom Host: Ms. Shipa, UTHM, Malaysia

ID 379 Motivational Impacts of the Google Docs Integration to Support Collaborative Writing: A Review Approach

Sharifahtun Naim Shahidan and Zuraina Ali, Centre for Modern Languages, Universiti Malaysia Pahang, Pahang, Malaysia
 Norsuhaily Abu Bakar, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, Terengganu, Malaysia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia

ID 381 The Interplay of Work Family Conflict and Enrichment in Determining Employee Wellbeing

R Zirwatul Aida R Ibrahim, Suraya Sulong and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia
 Suraya Sulong, Department of Terengganu State Health, Level 5, Wisma Persekutuan, Terengganu, MALAYSIA

ID 382 Learning Domains: A Preliminary Study of the Teaching Perceptions of Pedagogy in English-Based Huffaz Preschools

Zuraina Ali and Faliza Ibrahim, Centre for Modern Languages, Universiti Malaysia Pahang, Pahang, Malaysia
 Norsuhaily Abu Bakar, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, Terengganu, Malaysia
 Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Terengganu, Malaysia

ID 446 Analysis of MetaMed Web Application to determine strategies

Jonathan Marcois Jose E. Camaclang Jr., Jim Daniel A. Giron and Angelo R. Guevarra, Grace Lorraine Intal, School of Information Technology Mapua University, Makati, Philippines

ID 472 The Effect of Time Budget Pressure, Task Complexity and Professional Commitments on Reducing Audit Quality (RAQ) in Public Accountant Offices

Mediana Mutia Alfi and Armanto Witjaksono, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 474 The Effect of Emotional Intelligence and Locus of Control on The Work Stress and Its Implication on The Satisfaction of Sales Staff of Financial Technology Business Unit of PT Bank XYZ

I Herisetyantri, M J Elvansyah, Vincentia Janice and Engkos Achmad Kuncoro, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 486 Analysis of The Effect of Corporate Social Responsibility, Gender Chief Financial Officer and Majority Ownership on Tax Aggressive Behavior (Empirical Study on Trade and Service Sector Companies Listed on Indonesia Stock Exchange 2013-2016)

Priscilia and Levana Dhia Prawati, Accounting Department, School of Accounting, Bina Nusantara University, Jakarta, Indonesia

ID 518 Effects of Perceived Risk of COVID-19 on the Academic Stress of Undergraduate Students

Ma. Janice J. Gumasing, Daniel Perez, Franco Sanchez, and Ervin Santos, School of Industrial Engineering and Engineering Management Mapua University, Muralla St., Intramuros, Manila, Philippines

8:00 – 9:45 am, TUESDAY**Innovation and Industry 4.0****Virtual Room 6**

Session Chair: Jorge Oliveira e Sá, Researcher, ALGORITMI Research Center, University of Minho, Guimarães, Portugal
 Zoom Host: Ms. Rubana, Central Women's University, Dhaka, Bangladesh

ID 408 Strengthening Participatory Supervision through Online Participatory Supervisory Schools at Simultaneous Elections in West Kalimantan in the Era of Global Pandemic

Elyta, Martoyo and Dedi Kusnadi, Universitas Tanjungpura, Pontianak, Indonesia
 Muhammad Uhaib As'ad, Universitas Islam Kalimantan Muhammad Arsyad Albanjari, Banjar Masin, Indonesia
 Taufik Arbain, Universitas Lambung Mangkurat, Banjar Masin, Indonesia
 Syf. Aryana Kaswayana, Member of the Bawaslu of West Kalimantan Province, Indonesia

ID 409 Sustainability and Industrial Engineering Perspectives on Industry 4.0 and Electronic Device in Toll Gate

Khristian Edi Nugroho Soebandrija and Ho Hwi Chie, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University Jakarta, Indonesia

ID 410 Water Dispenser Manganese Greensand Filter on Product Design and Industrial Engineering Perspectives

Khristian Edi Nugroho Soebandrija, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia,
 Reiko Sarah Pradita, Product Design Engineering, Industrial Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 20 Science Recommendations Based on Social Media Platform

Jorge Oliveira e Sá, Researcher, ALGORITMI Research Center, University of Minho, Guimarães, Portugal

ID 149 The Effect of Product Development, Health Consciousness on Purchase Intention and Decision

Clara Geovanca, Michael Gabriel, Sonia Ariwati and Lasmy, Management Program, Management Study Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Tangerang, Indonesia

ID 157 Evaluating the Current Policies' Impacts on the 5G adoption in Indonesia using a systemic framework

Hermawanto Tjoa and Akhmad Hidayatno, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

June 14 (Tuesday) - Session: 10:00 am – 1:00 pm**Keynote Speakers – Ballroom / Virtual Room 1**

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

10:00 – 10:20 am Conference Chair Remarks

Keynote IX: Tuesday, June 14, 2022, 10:20 – 11:00 am

Dr. Mary Vollaro
Professor and Chair
Department of Mechanical Engineering and Environmental Engineering
Florida Polytechnic University
Lakeland, FL USA

Keynote X: Tuesday, June 14, 2022, 11:00 – 11:40 am

Dr. Mansoor Mollaghasemi
Associate Professor
Industrial Engineering & Management Systems Department
University of Central Florida
Orlando, Florida, USA

Keynote XI: Tuesday, June 14, 2022, 11:40 am – 12:20 pm

Dr. Ahmed Kamel
Senior Key Expert, Additive Manufacturing and Innovation
Siemens Energy
Orlando, Florida, United States

Keynote XII: Tuesday, June 14, 2022, 12:20 – 1:00 pm

Dr. Timothy Kotnour
Lockheed Martin St. Laurent Professor
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, Florida, USA

1:00 – 2:00 pm – Lunch Break (Provided)

June 14 (Tuesday) - Session: 2:00 – 3:45 pm

2:00 – 3:45, TUESDAY

Global Supply Chain and Logistics II

Onsite Room 1

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

GSCM Panel

Panel Chair

Alper Senol
Professor- Supply Chain Management
Miami Dade College
Miami, FL, USA

Panel Speaker I

Dennis Tribby
Director of Portfolio Solutions
Siemens Digital Industries Software
Florida, USA

Panel Speaker II

Professor Don Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA

Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Panel Speaker III

Mohammad Anwar Rahman, Ph.D.
Associate Professor
Manufacturing and Construction Management
Central Connecticut State University
New Britain, CT, USA

Panel Speaker IV

Mark Calabrese
Senior Instructor
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, FL, USA

2:00 – 3:45, TUESDAY

Plenary IV

Onsite Room 2

Session Chair: Dr. Saso Krstovski, MBB
Zoom Host:

2:00 pm – 2:30 pm

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

2:30 pm – 3:00 pm

Dr. Daw Alwerfalli
Professor of Mechanical and Manufacturing Engineering
Director of Master of Engineering Management Program
College of Engineering
Lawrence Technological University
Southfield, Michigan, USA

2:00 – 3:45, TUESDAY

Engineering Education and AI

Onsite Room 3

Session Chair: Aamar Shabir and Muhammad Ullah, Florida Polytechnic University, Lakeland, Florida, USA

ID 263 Disruptive strategies in the use of digital tools in public universities of the Amazon in the time of COVID - 19

Mario Chauca, Professor, Engineering Faculty, Ricardo Palma University, Santiago de Surco, Lima, Perú
Ibis López, Manuel Padilla, Wildoro Ramírez and Ingrid Herrera, Professor, Academic Department of Humanities and Social Sciences
National University of San Martín, Tarapoto, San Martín, Perú

ID 159 Emotional Intelligence and SMEs' performance in the Accra Metropolis, Ghana

Regina Appiah Gyimah, Department of Marketing, Accra Technical University, Accra, Ghana

ID 100 Creating a Teaching Platform for Course Design under the SCRUM Framework

Jesús Alexis Torrecillas Salazar, Corazón Beas Zertuche, Angélica Chapa, Manuel Benjamín Hernández, Mayra Angélica Hinojosa, Universidad de Monterrey, Mexico

ID 356 Performance Analysis and Conversion of a Diesel Engine Power Plant to A Dual-Fuel Power Plant for Kipevu- III 120 MW Power Station

Moses Jeremiah Barasa Kabeyia and Oludolapo Akanni Olanrewajub, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban university of Technology, Durban, SA

ID 402 Exploring, the impacts of Chirality Engineering of Carbon Nanotubes to improve the efficiency of Solar Cell

Aamar Shabir and Muhammad Ullah, Department of Electrical and Computer Engineering, Florida Polytechnic University, Lakeland, Florida, USA

ID 419 A Supervised Learning Approach to Assessing Accounts Receivable Risk in Small-to-Medium Enterprises

Jim Dewey, Calvin Ingram and Reinaldo Sanchez-Arias, Department of Data Science & Business Analytics, Florida Polytechnic University
Lakeland, Florida, USA

2:00 – 3:45, TUESDAY

Operations Management

Virtual Room 4

Session Chair: Aspen Thomas, Department of Engineering and Physics, Southern Arkansas University, Arkansas, USA
Zoom Host: Martina Marruganti, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 599 Cost analysis, Breakeven analysis and cash-flow analysis for an ice-cream case study Dalal Abahusain, Alanoud Alfawaz, Noura Alhinti and Dalal Alabdullatif, College of Engineering, Alfaisal University, Riyadh, Saudi Arabia

ID 612 Multi-agent approach promoting interoperability between Internet of Things applications
Patrick Pierre and Roger Nkambou et Pierre Poirier, Department of Computer Science, University of Quebec in Montreal (UQAM) Montreal, Canada

ID 613 Spatial Analysis of Traffic Accidents Between Tunisian Regions
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, Saudi Arabia

ID 614 Case Study: Improving Employee Engagement and Utilization of the Service Engineering Workforce
Aaron Rubel, MSEM, Head of Aircraft Maintenance Programs Development, Airbus Americas, Inc., Mobile, Alabama, USA
Dr. Aldo McLean, P.E., Department of Engineering Management & Technology, The University of Tennessee at Chattanooga Chattanooga, TN, USA

ID 616 Ethics of Implementing Machine Learning using Industry 4.0 Concepts in Aerospace and Defense Industries
Lina Khan, Doctoral Student, Department of Industrial Engineering and Management Systems, University of Central Florida Orlando, Florida, USA

ID 620 Inflow-Outflow Net Equivalents for Recovery Point Analysis of Improvement Model
Aspen Thomas and Hayder Zghair, Department of Engineering and Physics, Southern Arkansas University, Arkansas, USA

June 14 (Tuesday) - Session: 4:00 – 5:45 pm

4:00 – 5:45, TUESDAY

Onsite Room 1

Zoom Host: Sai Abhijith Medavarapu, Master of Science in Industrial Engineering Program, Lawrence Technological University, Southfield, MI, USA

Diversity and Inclusion Panel Sponsored by Ford Motor Company

Panel Chair

Wilkstar Otieno, Ph.D.
Associate Professor and Chair
Industrial and Manufacturing Engineering
Preparing Engineers and Computer Scientist NSF-STEM Scholarship PI. & WiscAMP Faculty Mentor
University of Wisconsin-Milwaukee
Milwaukee, WI, USA

Panel Speaker I

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

Panel Speaker II

Ms. Lourdes Matos-Rivera
Principal Systems Engineer
Northrop Grumman Aeronautics Systems
Orlando, Florida

Panel Speaker III

Yazeli Cruz
Medallia Expert Services / Latinx@Medallia Lead
Medallia
Washington, DC, USA

Panel Speaker IV

Charles W. Davis, Jr., Ph.D.
Associate Professor
Valencia College
Orlando, FL 32811

4:00 – 5:45, TUESDAY

GSCM III

Onsite Room 2

Session Chair: Alper Senol

Zoom Host:

4:00 – 4:20 pm, Tuesday, June 14

Alper Senol
Professor- Supply Chain Management
Miami Dade College
Miami, FL, USA
Process Engineering Manager

4:20 – 4:40 pm, Tuesday, June 14

Thomas Jones
Ph.D. candidate at UCF
Department of Industrial and Systems Engineering
University of Central Florida
Orlando, FL, USA

4:40 – 5:00 pm, Tuesday, June 14

Cintia Zuccon Buffon
Industrial Engineer

4:00 – 5:45, TUESDAY

Case Studies

Onsite Room 3

Session Chair: Erica Castilho-Grao, University of Central Florida, Orlando, Florida, USA

ID 86 Managing Research Remotely: Lessons Learned and Best Practices from a Case Study in a Research Lab during COVID19

Erica Castilho-Grao, Betsy Laxton, Dave B. Miller and Ben D. Sawyer, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

ID 374 Digital Customer Experience and Cyber Defence Mechanisms: A Perspective of Selected Multinationals in South Africa

Genevieve Bakam Fotso, Associate Researcher, Department of Quality and Operations Management, University of Johannesburg, South Africa
Charles Mbohwa, Professor, Department of Quality and Operations Management, University of Zimbabwe, Harare, Zimbabwe
Nita Sukdeo, Professor, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
Anup Pradhan, Senior Lecturer, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 375 Technology Strategies and Business Analytics Based Decision-Making Process: A Case of Selected Corporates in Pretoria

Genevieve Bakam Fotso, Associate Researcher, Department of Quality and Operations Management, University of Johannesburg, South Africa
Charles Mbohwa, Professor, Department of Quality and Operations Management, University of Zimbabwe, Harare, Zimbabwe
Nita Sukdeo, Professor, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
Anup Pradhan, Senior Lecturer, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 65 A novel sorting approach under uncertainty: A Monte-Carlo simulation with temporal evaluations

Anissa Frini and Youness Mouhib, Management science department, Université of Québec at Rimouski, Quebec, Canada

ID 348 The 4th Industrial Revolution: Preparation of Bangladesh for adapting with this Modern Technology

Khan Mohammad Elyas, Sentence Planning Officer, GIZ Bangladesh, Dhaka, Bangladesh
Rahman Md. Ziaur, Director and Manager, BJM Trading Contracting and Cleaning Services (W.L.L), Doha, Qatar

ID 481 Automated Recognition and Prediction of Wildfires

Mazin Al Hamando, Department of Mathematics and Computer Science, Lawrence Technological University, Southfield, MI, USA

ID 648 WIP Management through Practical Worst Case and Process Simulation in JIT Production

Cory Williams and Karthik Dhandapani, Master of Science in Industrial Engineering, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

June 14 (Tuesday) - Session: 7:00 – 10:00 pm

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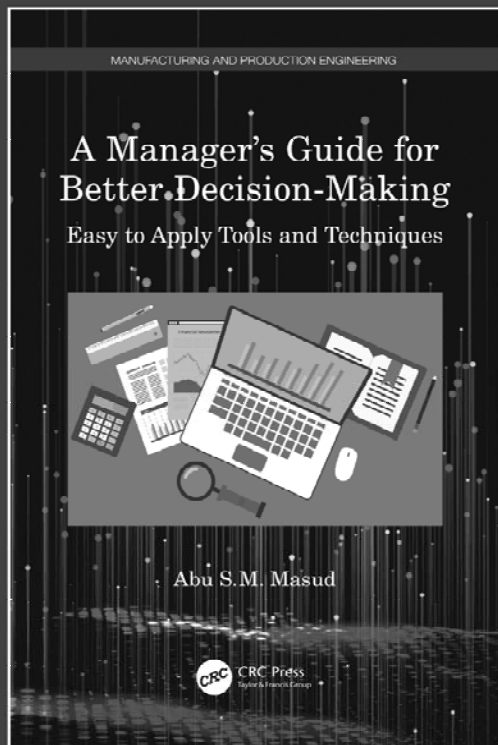
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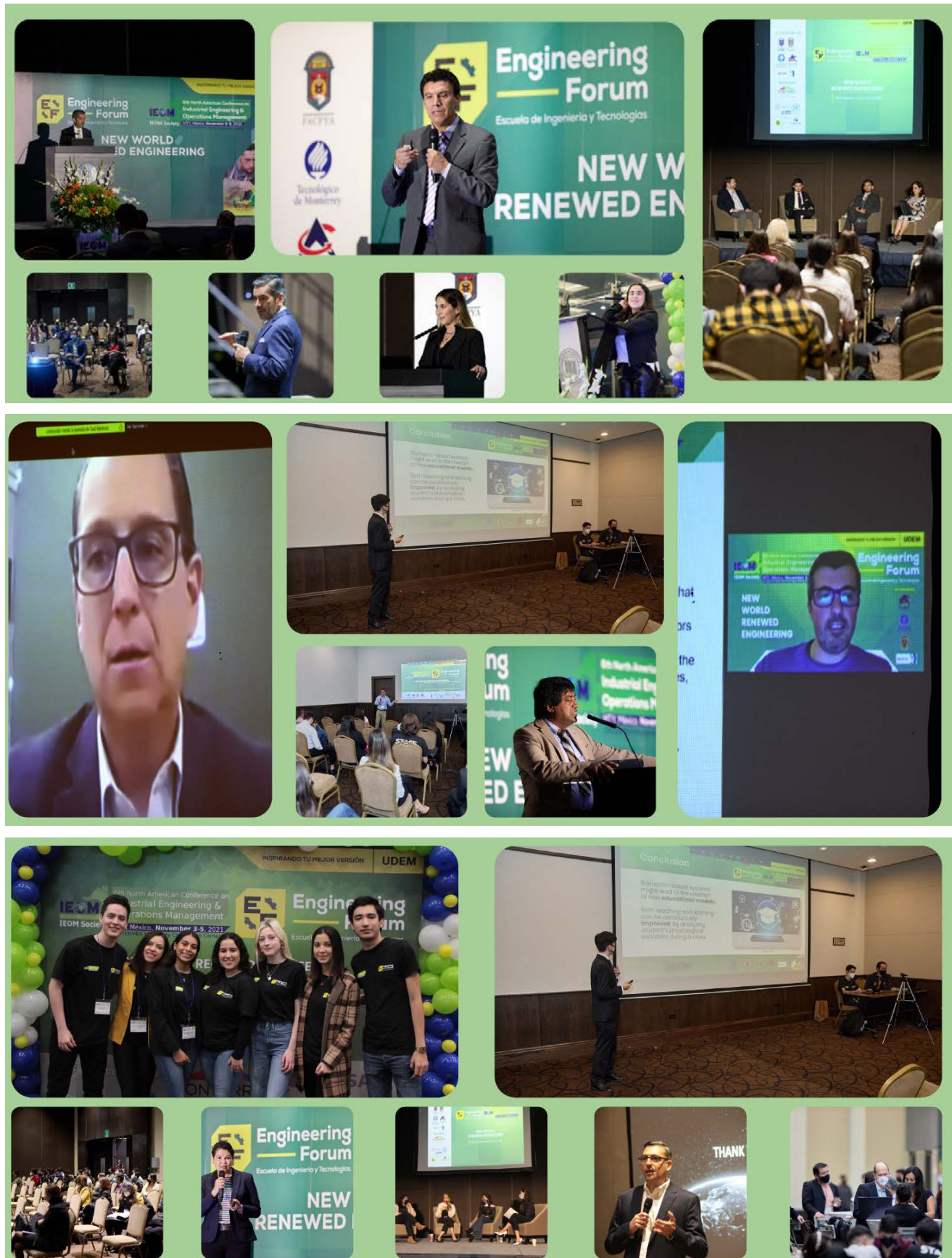
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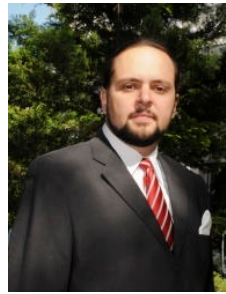
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Upcoming Events



3rd South American Conference on Industrial Engineering & Operations Management
Asuncion, Paraguay, July 19-21, 2022
Host: Asuncion National University



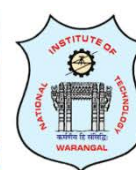
5th European Conference on Industrial Engineering & Operations Management
Rome, Italy, July 26-28, 2022
Host: Sapienza – University of Rome



SAPIENZA
UNIVERSITÀ DI ROMA



2nd Indian Conference on Industrial Engineering and Operations Management
August 16-18, 2022, Warangal, India
Hosts: NIT, Warangal and JNTU, Hyderabad



3rd Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 13-15, 2022, Johor Bahru, Malaysia
Hosts: Universiti Teknologi Malaysia (UTM) & Universitas Sebelas Maret (UNS), Indonesia



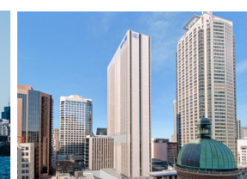
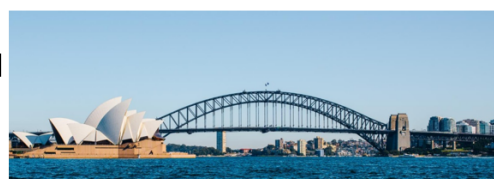
UTM
UNIVERSITI TEKNOLOGI MALAYSIA



UNS
UNIVERSITAS SEBELAS MARET



First Australian Conference on Industrial Engineering and Operations Management
Sydney, Australia, December 20-22, 2022
Venue: Hilton Sydney, NSW, Australia



5th International Conference on Industrial and Mechanical Engineering and Operations Management™ (IMEOM)
Dhaka, Bangladesh, December 26-27, 2022
Venue: Krishibid Institution Bangladesh Complex, Farmgate, Dhaka



13th Annual International Conference on Industrial Engineering and Operations Management
March 7-9, 2023, Manila, Philippines
Venue: Hilton Manila, Host: De La Salle University



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