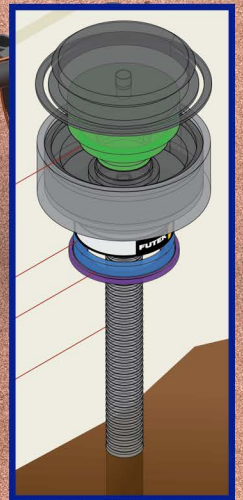
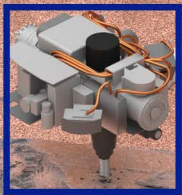
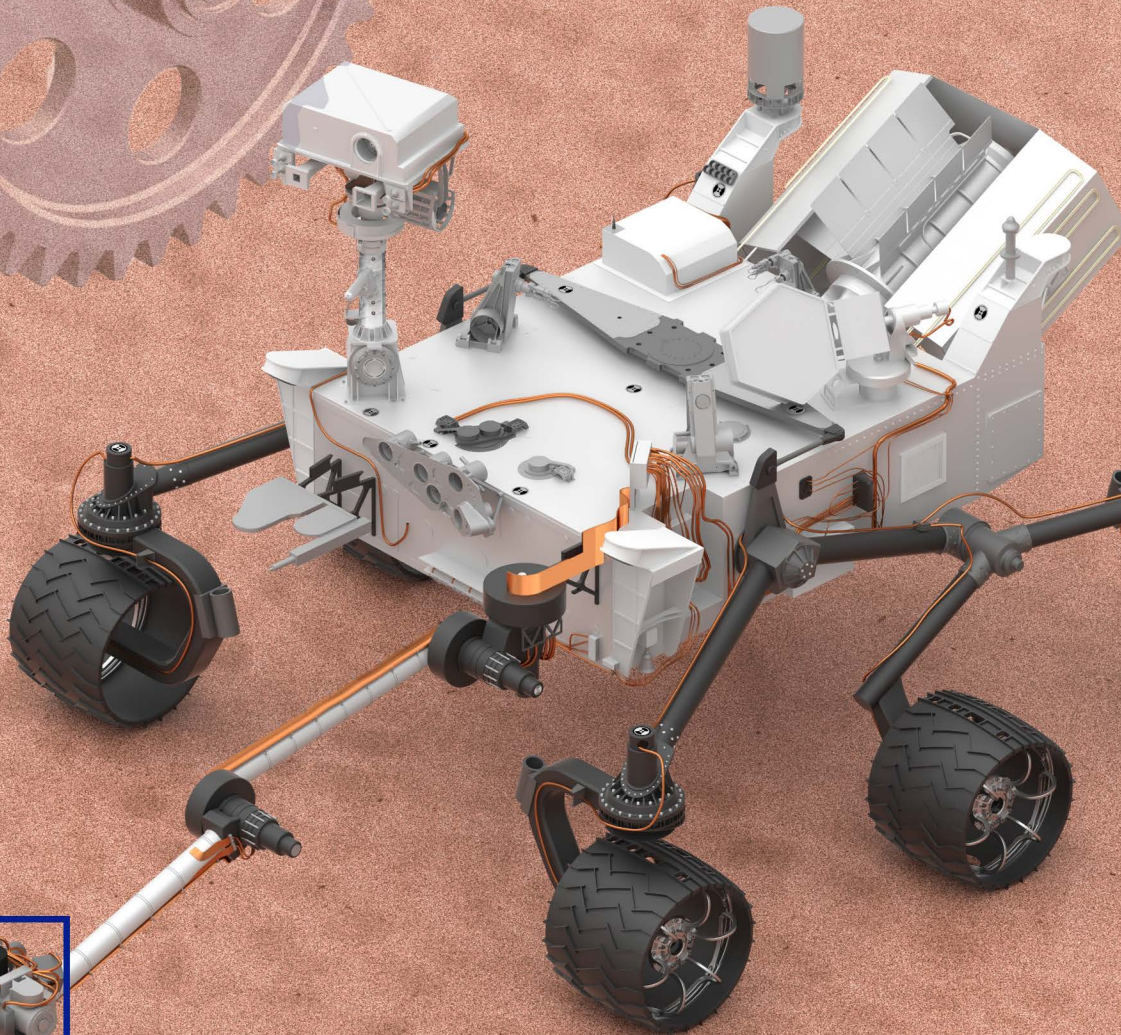


3rd IEOM World Congress on Industrial Engineering and Operations Management



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October 13-15, 2026

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"Achieving and Sustaining Operational Excellence"

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Industrial Engineering and Operations Management Society International

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

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Welcome to the 3rd IEOM World Congress on Industrial Engineering and Operations Management – Advanced Manufacturing and Industrial AI Innovation

Irvine, California, USA, October 13 -15, 2026
Venue: Courtyard by Marriott Irvine Spectrum

To All Conference Attendees:

The IEOM Society International is pleased to welcome you to the 3rd IEOM World Congress on Industrial Engineering and Operations Management – Advanced Manufacturing and Industrial AI Innovation, being held in Irvine, California, USA, October 13–15, 2026. The conference is chaired by **Mr. Javad Mokhbery, CEO and President of FUTEK Advanced Sensor Technology, Inc., Irvine, California.**

This World Congress brings together academicians, researchers, industry leaders, engineers, students, and professionals from around the world to exchange knowledge, share innovative research, and discuss emerging technologies and practices shaping the future of industrial engineering and operations management.

The 2026 Irvine World Congress places particular emphasis on advanced manufacturing and industrial artificial intelligence, while providing a broad platform for research and applications in AI in manufacturing, automation, robotics, supply chain and logistics, simulation and optimization, engineering management, quality and reliability, sustainability, entrepreneurship, human factors, engineering education, and Lean Six Sigma.

The conference program features an exciting combination of distinguished keynote presentations, technical sessions, plenary activities, expert panels, professional and student workshops, competitions, poster presentations, networking opportunities, and industry engagement.

Distinguished Keynote Speakers

We are delighted to welcome a distinguished group of keynote speakers representing industry, academia, engineering leadership, advanced technology, manufacturing, quality, artificial intelligence, and operations management.

The keynote program includes:

- **Mr. Javad Mokhbery** – CEO and President, FUTEK Advanced Sensor Technology, Inc., Irvine, California
- **Dr. Maj Dean Mirmirani** – Interim Dean of Engineering, Ohio University; Past Interim Dean, College of Engineering, Lawrence Technological University; Dean Emeritus of Engineering, Embry-Riddle Aeronautical University
- **Andy Zhou** – Founder and Defense Technology Engineer, Irvine, California
- **Dr. Peter J. Burke** – Professor of Electrical Engineering and Computer Science and Professor of Biomedical Engineering, University of California, Irvine
- **Dr. Gopal Mohanty** – Vice President of Regulatory, Quality, Compliance, and Clinical Affairs, Clarix Imaging; Assistant Professor, University of Southern California
- **Steve Harrington** – Senior Advisor and Workforce Development Strategist, Manufacturing Skill Standards Council
- **Richard Walker** – Technical Director and Operations, FUTEK Advanced Sensor Technology, Inc.
- **Dr. Ali Abbas** – Professor of Industrial and Systems Engineering, University of Southern California
- **Dr. Amir Sajjadi** – Founder and Lead Consultant, Utmost Connect, Irvine, California
- **Dr. Luis Rocha Lona** – Professor in Operations Management, National Polytechnic Institute of Mexico
- **Thomas Bowles** – Director of Quality Assurance, FUTEK Advanced Sensor Technology, Inc.

These keynote presentations will provide perspectives on advanced manufacturing, industrial AI, engineering leadership, quality, technology innovation, workforce development, operations management, and the future of engineering.

Panels, Workshops and Special Sessions

The conference program includes a series of expert panels addressing important emerging issues in engineering, manufacturing, technology, and professional development. Featured panels include:

- **Lean Six Sigma Panel**
- **Innovation and Entrepreneurship Panel**
- **Women in Industry and Academia Panel**
- **AI-Powered Engineering Panel**

The program also includes professional and educational workshops covering areas such as

- **Emotional Intelligence and Leadership Workshop**
- **Student Career Planning Workshop and Panel**
- **Entrepreneurship and Innovation Workshop**
- **Lean Six Sigma Green Belt Workshop**

Technical Sessions and Competitions

Participants will have opportunities to present and discuss research across a wide range of IEOM areas, including advanced manufacturing technologies, supply chain and logistics, simulation and optimization, automation and robotics, autonomous systems, human factors and ergonomics, healthcare systems, engineering education, quality and reliability, maintenance, sustainability, green systems, energy, engineering management, entrepreneurship, and AI in manufacturing.

The conference also provides opportunities for students and researchers to showcase their work through undergraduate research and paper competitions, Ph.D. dissertation competition, and poster presentations.

Industry, Networking and Collaboration

A major objective of the IEOM World Congress is to strengthen connections between universities, industry, government, professional organizations, and students. The Irvine program provides opportunities for networking, knowledge exchange, professional development, and collaboration through technical sessions, keynote presentations, panels, workshops, competitions, poster sessions, and social activities.

We are especially pleased to bring the IEOM World Congress to Irvine, California, a major center for technology, advanced manufacturing, aerospace, defense, engineering, entrepreneurship, and innovation. The conference provides an excellent environment for participants to explore the connections between industrial engineering, advanced manufacturing, artificial intelligence, and emerging technologies.

We extend our sincere appreciation to Mr. Javad Mokhbery and FUTEK Advanced Sensor Technology, Inc., our keynote speakers, panelists, workshop leaders, sponsors, partners, authors, reviewers, track chairs, committee members, volunteers, and all participants for their contributions to this World Congress.

We are confident that the 3rd IEOM World Congress in Irvine will provide an intellectually enriching, professionally valuable, and collaborative experience for all participants.

We wish you a successful conference and an enjoyable, memorable stay in Irvine, California.

Welcome to the 3rd IEOM World Congress!



Javad Mokhbery
CEO and President of FUTEK
Conference Chair



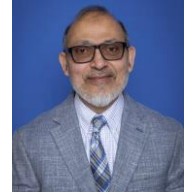
Dr. Ahad Ali
Lawrence Technological
University, Michigan, USA
Conference Co-Chair



Professor Don Reimer
Chief Operating Officer
IEOM Society International
Program Chair



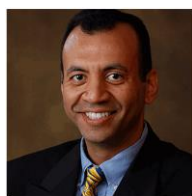
Dr. Luis Rocha Lona
National Polytechnic Institute
(IPN) of Mexico
Chair, 2027 World Congress



Dr. M. Affan Badar
Indiana State University
Technical Co-Chair



Dr. Mohamed Awwad
Cal Poly, San Luis Obispo
Technical Co-Chair



Dr. Ali E. Abbas
University of Southern California
Organizing Committee Member



Dr. Henrique Ewbank
University of North Texas
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Dr. Shokoufeh Mirzaei
Cal Poly Pomona
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Dr. Arun N Nambiar
California State Univ. – Fresno
Organizing Committee Member



Dr. Leonard (Lenny) Perry
University of San Diego
Organizing Committee Member



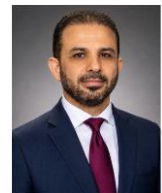
Dr. Rupa Purasinghe
California State University, Los
Angeles
Organizing Committee Member



Dr. Ahmad R. Sarfaraz
California State University,
Northridge
Organizing Committee Member



Dr. Sina Zare
Loyola Marymount University,
Los Angeles
Organizing Committee Member



Dr. Hayder Zghair
Southern Arkansas University
Organizing Committee Member

Keynote Speakers

October 13, 2026 (Day 1)

10:00 – 10:40 am, October 13 (Tuesday), 2026 – Opening Keynote



Javad Mokhberty
CEO and President
FUTEK Advanced Sensor Technology, Inc.
Irvine, California, United States

By all accounts, Javad Mokhberty is a brilliant man. Without any financial help, he built his company, FUTEK Advanced Sensor Technology, Inc., from one bed room apartment to be the leading manufacturer of sensors for a wide variety of industries throughout the world. As a mechanical engineer and innovator, he stays ahead of the trends and positions his company as a pioneer within the evolving industries that he serves. Today, his sensors are used on drills deep down in the Earth for the oil and gas industry and on the surface of Mars where NASA's rover

Curiosity has been exploring since 2012 and making new discoveries each day with the help of FUTEK's technology. FUTEK sensors are also used in the manufacturing process of the world's leading smartphones and wearable devices. Indeed, he is extremely smart.

Yet this is not what makes Javad an effective entrepreneur. Pure intelligence, he says, only gets one so far in business. Even if you boast the top mind in your field and balance it with a knack for business and science, you are still missing a huge piece of the equation – emotional intelligence (EQ). Javad says his EQ has been his key to entrepreneurial success. It's not something that can be taught through a traditional education, and it's not necessarily something one is born with either. Rather, Javad credits his unique upbringing and life experiences.

Born in Iran in 1952, Javad was raised by religiously conservative parents, and his father was a successful businessman. By the early 1960s, Javad knew he wanted to study in America, but his parents did not approve. Refusing to take "no" for an answer, he began recruiting random tourists off the street and invited them over for lunch or dinner to expose his folks to the West and show them that foreigners weren't bad while making friends, practicing English and learning their culture. Then again, we are talking about 1960s; there were no internet or social media like today.

The strategy forged a special kind of EQ in Javad, which serves him to this very day. As an Iranian pre-teen, he said that conversations with strangers from places like Switzerland and Germany helped him empathize and connect with people from all walks of life. He was able to connect with his parents in a powerful way as well. Emotional Intelligence is largely about knowing what other people want or need, and Javad pulled this off in an unusual fashion. When he was 19, they agreed to let him go study in England.

In January 1974, he moved from London to Detroit to advance his education first at DIT (Detroit Institute of Technology). Then at OCC (Oakland Community College) and finally at the Lawrence Institute of Technology (LIT). The move was drastic. He wound up in some of the most dangerous areas of the city and worked there as an ice cream salesman to pay for his education. Though he easily could have, Javad never asked his parents for money. Instead, he worked hard and used his EQ to forge relationships in some of the most undesirable neighborhoods of Detroit to pay for this stage of his education.

Upon graduating from LIT, Javad worked his way up at sensor Production Company in Detroit called GSE. With no green card but with practical training permit from the government, he started in 1979 as the lowest paid engineer at the company and left in 1985 as the highest paid engineer, just below his manager. Then he moved to Southern California to another sensor company in Cerritos called Transducers Inc. and later worked primarily as a contractor to aerospace manufacturers at Rockwell International in Downey, including NASA's Space Shuttle program.

In 1988, Javad Used up all his saving to buy his first house in Aliso Viejo Ca, got married, ended his journey and his full-time job at Rockwell International and committed to FUTEK with his brother Mohammad Mokhberty, who joined him from Sweden. Upon Javad's Arrival in California, FUTECH was originally founded in 1985, which stands for "future technology." They built the company from the ground up with no money and no commercial loans. The only financing Javad had available to him was his home equity loan on his house in Aliso Viejo and credit cards.

For seven years they struggled, but by the mid-1990s FUTEK had caught its stride, and it was innovating sensors ahead of any other manufacturer in the space. Javad said FUTEK has been successful because of its ability to foresee where other industries are going and develop a sensor for that new direction before the technology needing the sensor actually exists. This approach which follows Blue Ocean Strategy as well as Bayesian Strategy has enabled FUTEK to make its own markets and have huge sectors essentially all to themselves.

The result has been almost two decades of exponential growth. FUTEK employs over 140 people at its Irvine headquarters, where it develops and manufactures all of its sensors. Javad takes great pride in making all of his products in the U.S., and he uses all American-sourced raw materials as well. Not only does he not buy components from China, which is done by many other players in his market, but as a global U.S. company he sells many sensors to China at a premium.

FUTEK's sensors have a great reputation with high volume medical, aerospace and automation OEM accounts maintaining a zero field reject rate, with the mindset that "Failure is not an option", something that is extremely rare at this level of precision manufacturing. However, an even greater source of pride for Javad is the fact that FUTEK has never laid off an employee since inception. Even during a lean period following implementation of Oracle Business Suite in 2009, FUTEK kept everyone on staff even though the orders had temporarily dried up. He puts machinist and skilled technicians to work doing other things around the office, such as landscaping, just to keep them productive until activities picked up again.

He insists on a "quality culture" as opposed to "quality control," which gives manufacturing ownership to his team and yields FUTEK's coveted zero field rejection rate. The dedication to his team is part of Javad's Emotional Intelligence philosophy towards entrepreneurship, and it guides different management strategies that he's deployed at FUTEK.

10:40 – 11:20 am, October 13 (Tuesday), 2026 – Keynote II



Andy Zhou
Founder, Defense Technology Engineer
Irvine, California, USA

Presentation Title: “AI Designed It. I Printed It. It Flew.” — Building an Autonomous Interceptor with Generative CAD and Desktop Additive Manufacturing

Andy Zhou is a self-taught defense technology engineer and founder based in Irvine, California, currently leading development of an autonomous counter-UAS interceptor. Over the past five years, his technical work has spanned autonomous flight control, computer vision and thermal imaging for real-time object tracking, embedded Linux and edge AI accelerators, and the additive manufacturing of airframes using engineering polymer composites. Beyond the interceptor program, Zhou’s work includes the applied use of large language models for parametric CAD and code generation, the design of mesh networking protocols for multi-agent autonomous coordination, and research in efficient neural architectures for memory-constrained and low-power hardware. His broader interests include the structural challenges facing the American defense industrial base, particularly domestic component sourcing and vertically integrated manufacturing.

11:20 am – 12:00 pm, October 13 (Tuesday), 2026 – Keynote III



Gopal Mohanty, PhD
Vice President of Regulatory, Quality, Compliance, and Clinical Affairs
Clarix Imaging, Moorpark, California
Assistant Professor, Department of Regulatory and Quality Sciences, University of Southern California

Presentation Title: Driving Operational Excellence, Regulatory Readiness, and Scalable Innovation in Advanced Manufacturing

Dr. Gopal P. Mohanty is a seasoned industry executive and an educator with over two decades of global leadership in Quality, Compliance, Regulatory, and Clinical Affairs. He has held pivotal roles, including Vice President, Director, and Advisory Board Member, driving strategic initiatives and operational excellence across multinational organizations. Dr. Mohanty has a proven track record of driving efficiency in regulatory submissions, securing product approvals, and ensuring compliance with global standards, including FDA, EU, PMDA, and other regulatory bodies. His accomplishments include spearheading global quality and regulatory strategies, launching products in the USA, EU, and MDSAP regions, and implementing robust systems compliant with FDA, ISO 13485, MDSAP, MDR, and SaMD standards.

He has taught various topics related to Regulatory Science, Quality, Compliance, and Lean Manufacturing as an adjunct faculty at several institutions over the past 20 years. He has successfully led transformative initiatives, delivering millions in savings through Six Sigma projects and significantly improving quality across complex product platforms. Dr. Mohanty holds a Ph.D. in Industrial Engineering complemented by executive education at Harvard, Kellogg, and Chicago Business Schools. A certified ISO 13485 Lead Auditor and Six Sigma Black Belt, he also holds dual Regulatory Affairs certifications in medical devices and pharmaceuticals. His unique blend of technical expertise and strategic vision empowers him to inspire teams, align stakeholders, and deliver innovative solutions that drive organizational success.

October 14, 2026 (Wednesday) – Day 2

9:40 – 10:20 am, October 14 (Wednesday), 2026 – Keynote V



Dr. Peter J. Burke
Professor, Electrical Engineering and Computer Science
Professor, Biomedical Engineering
The Henry Samueli School of Engineering
University of California, Irvine
Irvine, California, USA

Peter Burke is a pioneer in nanoelectronics and its application to biotechnology. He is the recipient numerous awards including Young Investigator award from the Office of Naval Research, the Young Investigator Program award from the Army Research Office. His lab has made fundamental contributions to nanotube and graphene electronics, nanoelectromagnetics, as well as microchip based instrumentation for nano-electrophysiology and metabolomics. He received the Ph.D. degree in physics from Yale University, New Haven, CT, in 1998. From

1998 to 2001, he was a Sherman Fairchild Postdoctoral Scholar in physics at the California Institute of Technology, Pasadena. He is currently a Professor in the Departments of Electrical Engineering & Computer Science, Chemistry & Materials Science and Engineering, and Biomedical Engineering at the University of California, Irvine.

10:20 – 11:00 am, October 14 (Wednesday), 2026 – Keynote VI



Steve Harrington
Senior Advisor and Workforce Development Strategist
Manufacturing Skill Standards Council
Simi Valley, California, USA

Presentation Title: Preparing the 21st-Century Workforce for Supply Chain Automation and Advanced Manufacturing

Steve Harrington is a supply chain industry veteran with more than 40 years of leadership experience in supply chain, logistics, distribution, workforce development, and economic development. He currently serves as Senior Advisor, Western U.S., for the Manufacturing Skill Standards Council (MSSC), where he is the principal industry contact for the Certified Technician–Supply Chain Automation (CTSCA) certification program, an industry-developed credential designed to prepare technicians for the rapidly evolving supply chain automation sector.

Harrington previously served for 16 years as President and Chairman of the Distribution Management Association of Southern California (DMA), a 250-member logistics industry association that he helped develop, organize, and lead. He has extensive experience bringing together industry, academia, workforce-development organizations, and government stakeholders to address emerging challenges in supply chain and logistics. For 11 years, Harrington served as an Industry Liaison and researcher for the NSF-funded National Center for Supply Chain Automation (SCA). In this role, he developed and oversaw a national industry leadership team comprising supply chain executives and logistics professionals and contributed to initiatives addressing the changing technology and workforce requirements of the supply chain industry.

Harrington has spent more than 20 years speaking nationally to industry, academic, and workforce-development audiences on supply chain trends, automation, technology adoption, and the implications of these changes for the 21st-century workforce. His industry experience also includes 28 years in supply chain operations, most recently serving as West Coast General Manager for Perrigo Company, a Fortune 500 healthcare and pharmaceutical manufacturer. His work at the intersection of supply chain automation, advanced manufacturing, workforce development, industry credentials, and emerging technologies provides a valuable industry perspective on preparing the workforce for the next generation of manufacturing and logistics systems. Harrington has also been recognized twice with the "Spirit of the Entrepreneur" Award for his contributions to economic development.

11:00 am – 11:40 pm, October 14 (Wednesday), 2026 – Keynote VII



Richard Walker
Technical Director and Operations
FUTEK Advanced Sensor Technology, Inc.
Orange County, California, United States

Presentation Title: Advanced Sensing Technologies for Smart Manufacturing: Connecting Measurement, Data and Intelligent Operations

Richard Walker is a technical and operations leader at FUTEK Advanced Sensor Technology, Inc., an Orange County, California-based manufacturer specializing in advanced sensor and measurement technologies. In his role as Technical Director and Operations, he provides leadership at the intersection of engineering, technology development, manufacturing operations, and customer-focused technical solutions.

Walker's experience with advanced sensing technologies provides valuable insight into the role of sensors, measurement systems, instrumentation, and data acquisition in modern manufacturing and engineering applications. His work is closely aligned with the growing adoption of connected and intelligent technologies that enable real-time monitoring, process control, quality improvement, automation, and data-driven decision-making.

At FUTEK, Walker is part of an organization recognized for developing and manufacturing advanced sensing solutions used across a broad range of demanding applications. His perspective encompasses the practical challenges of translating advanced sensor technology into reliable products and manufacturing solutions, including engineering development, production operations, quality, and technology integration.

With the continued transformation toward Industry 4.0, smart manufacturing, industrial automation, and data-driven production systems, advanced sensing and measurement technologies are increasingly important for creating connected and intelligent manufacturing environments. Walker brings an industry perspective on how these technologies can support improved manufacturing performance, reliability, quality, and operational efficiency.

A notable achievement of Walker's career is his involvement in FUTEK's collaboration with NASA and the Jet Propulsion Laboratory (JPL) on the Mars Curiosity Rover. FUTEK developed specialized force and torque sensors used on the rover's robotic systems, supporting precise measurement and control during its scientific and drilling operations. Richard Walker is an alumnus of California State University, Fullerton.

11:40 am – 12:20 pm, October 14 (Wednesday), 2026 – Keynote VII

**Dr. Maj Dean Mirmirani****Interim Dean of Engineering, Ohio University, USA****Past Interim Dean, College of Engineering, Lawrence Technological University, Southfield, Michigan****Dean Emeritus of Engineering, Embry-Riddle Aeronautical University, Daytona Beach Campus. Florida**

Dr. Maj Mirmirani received his Ph.D. and M.S. in Mechanical Engineering from the University of California, Berkeley, and his B.S. in Mechanical Engineering from Tehran Polytechnic (Amir Kabir University). Prior to starting his career in the United States in 1981, he spent a year at the Imperial College of Science and Technology's Department of Electrical Engineering in London as an academic visitor working on the development of a 64-lead electrocardiography (EKG). In 1981, he joined the California State University, Los Angeles's (CSULA) Department of Mechanical Engineering, where he served as department chair for 12 years. At CSULA, he founded and directed the Air Force Office of Scientific Research (AFOSR)-funded Multidisciplinary Flight Dynamics and Control Lab and was also one of the two co-directors of the NASA-funded University Research Center (SPACE Center). During his

tenure at CSULA, he led several major research projects totaling to over \$20M in funding. Most notable among them were the pioneering work on modeling, simulation, and control of airbreathing hypersonic flight vehicles; design and development of a high-endurance hydrogen fuel cell-powered UAV (the first such university-built vehicle to fly); design and fabrication of a full-scale precision segmented reflector testbed with shape control and pointing accuracy requirement comparable to a space-based system (a precursor to the J.W. Web); as well as development of a control-oriented multidisciplinary software package for aerospace systems design a project funded by AFOSR. While at CSULA, he also spent two summers at the National Institute of Health's Division of Mathematical Biology working on mathematical modeling for optimal delivery of monoclonal antibodies in treatment of cancer.

In 2007, Dr. Maj Mirmirani joined Embry-Riddle Aeronautical University as the dean of the College of Engineering at the Daytona Beach Campus. During his fifteen-year tenure, for two years (2016-2018) he also served as the interim senior vice president for academic affairs and research. In August 2021, he retired from ERAU and was given the title of Dean Emeritus. However, he was recruited to serve as the interim dean at the Russ College of Engineering and Technology at Ohio University, June 2022 –July 2023. In 2024- 2025, Dr. Maj Mirmirani joined Lawrence Technological University as the interim dean of the College of Engineering. Dr. Mirmirani is a Fellow of the ASME, a Fellow of the Royal Aeronautical Society, and an Associate Fellow of the AIAA. He is an instrument-rated private pilot and a member of the Airplane Owners and Pilots Association.

12:20 – 13:00 pm, October 14 (Wednesday), 2026 – Keynote VIII

**Dr. Ali Abbas****Professor of Industrial and Systems Engineering****University of Southern California****Los Angeles, California, USA**

Presentation Title: Integrating AI, Ethics, and an Appropriate Decision System into Large-Scale Decisions

Dr. Ali Abbas is Professor of Industrial and Systems Engineering at the University of Southern California. He is author, coauthor, and editor of numerous books including (i) Foundations of Decision Analysis, with Ronald A. Howard, (ii) Foundations of Multiattribute Utility, (iii) Next Generation Ethics, and (iv) Ethical Decision Quality: Building an Ethical Decision Culture. He also served as the Director of the Neely Center for Ethical Leadership and Decision-Making, and the Center for Risk and Economic Analysis of Threats and Emergencies (CREATE).

He received the Decision Analysis Society Best Paper Award in 2011, the IEEE Systems Council Best Publication Award in 2019, and the Clemen-Kleinmuntz Best publication award in Decision Analysis in 2026. He has been involved in numerous high-stakes decisions including the analysis of TSA-Pre decisions with the Chief Risk Officer of the TSA.

Dr. Abbas regularly teaches courses on decision analysis and has taught numerous executive education courses at a variety of institutions, such as Stanford University, BP, Southern California Edison, the Department of Homeland Security, and numerous other institutions. In addition to his academic career, Dr. Abbas is recipient of the first cohort of NSF I-Corps award where he founded Ahoona, a decision making social network that has several thousand users around the world.

19:00 – 22:00, Wednesday, October 14, 2026

Conference Awards Dinner and Competition Winner Recognitions

October 15, 2026 (Thursday) – Day 3

10:00 – 10:40 am, October 15 (Thursday), 2026 – Keynote IX



Dr. Amir Sajjadi, Ph.D., PMP
Founder & Lead Consultant
Utmost Connect
Irvine, California, USA

Presentation Title: Deterministic Decision Support for Medical Device Design Verification

Dr. Amir Sajjadi is the founder and lead consultant of Utmost Connect, providing fractional CTO and senior R&D leadership across medical devices, aerospace, and advanced technology sectors. He holds a Ph.D. in Mechanical Engineering (Biomedical Optics) from the Florida Institute of Technology, an M.Sc. in Aerospace Engineering from Iran University of Science and Technology, and a B.Sc. in Mechanical Engineering. With 20+ years of technical leadership, Dr. Sajjadi has held progressively senior roles spanning clinical research, advanced manufacturing, digital engineering transformation, and consulting. At Edwards Lifesciences, he served as Senior Principal Engineer, directing \$4M+ R&D programs developing femtosecond laser processing systems for precision cutting and mapping of cardiac implant components (Nitinol, CoCr, stainless steel). He designed and optimized a supersonic gas nozzle using Star-CCM+ CFD analysis for high-pressure micro-laser cutting, achieving a 6% production yield increase and fleet-wide deployment. He managed system-level verification, validation, IQ/OQ/PQ testing, CAPA investigations, and DOE/Gage R&R statistical analysis under 21 CFR 820 and ISO 13485. He also led optics and laser training for 10+ engineers and managers and directed blood-hemodynamics CFD analysis with physiological testing. At Harvard Medical School and Massachusetts General Hospital, he served as Instructor in Radiology and Senior R&D Engineer, directing a first-in-human Phase-I clinical trial of a novel breast optical imaging platform and securing a \$500K NIH grant. He led integration of a Mesoscale Imaging System (dual NIR-I and visible imaging channels with CMOS/CCD sensors) for animal drug-discovery applications and directed invention of a patented fNIRS-based non-invasive tissue-monitoring method. He also instructed at Harvard Medical School and MIT-HST, mentored 2 postdoctoral fellows and 1 Ph.D. student, and co-authored numerous peer-reviewed publications. At Saratech, he architected PLM workflows and digital thread strategies across MedTech and aerospace clients, reducing design iteration. Earlier in his career, he conducted NSF-supported research at Florida Institute of Technology on ultra-short pulse laser systems for tumor ablation (supervised 4 master's students), established Lighting Science Group's Laser Lab and devised novel laser material deposition techniques for the semiconductor and LED industries, optimized gas turbine and centrifugal pump designs using CFD/FEA modeling at the Energy Research Institute (Niroo), and designed industrial HVAC and piping systems for hospitals and sports complexes at Maher Consulting. Dr. Sajjadi has authored 27+ peer-reviewed publications with 500+ citations, holds 9 patents, and is a PMP-certified professional and Six Sigma Green Belt. He is a member of ASME, OSA, and BMES, is ITAR-eligible, and possesses extensive expertise in FDA 21 CFR 820, ISO 13485, and EU MDR-regulated product development.

10:40 – 11:20 am, October 15 (Thursday), 2026 – Keynote X



Dr. Luis Rocha Lona
Professor in Operations Management
IPN Business School
National Polytechnic Institute of Mexico (IPN)
México City, Mexico

Luis Rocha-Lona is a professor 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 led several projects involved with service and manufacturing organizations and is currently supervising Master and PhD students at National Polytechnic Institute of Mexico.

11:20 am – 12:00 pm, October 15 (Thursday), 2026 – Keynote XI



Thomas Bowles, MSEE, CQE, CQA
Director of Quality Assurance
FUTEK Advanced Sensor Technology, Inc.
Orange County, California, United States

As Director of Quality Assurance for FUTEK Advanced Sensor Technology, Inc. in Irvine, CA, Thomas oversees all Quality, Regulatory, Training, and Safety operations for the Corporation, which designs, manufactures, and markets Force, Load, Torque, and Pressure sensors domestically and in 49 countries around the world. In his 22 years as the head of Quality for FUTEK, he has led the Quality team on every major technological sensor program, including sensors for robotic surgery and sensors for NASA's Mars Rover Curiosity program which continues to send back extraordinary scientific discoveries from the surface of Mars. Thomas also oversees the company's ISO certifications, including ISO 9001, ISO 13485, ISO 17025, ISO 27001, and AS9100. He is very active in the local chapter of the American Society for Quality (ASQ) as a frequent speaker at technical clinics and has passed the certification exams to be recognized as a Certified Quality Engineer (CQE) and a Certified Quality Lead Auditor (CQA).

Before joining FUTEK, Thomas was the Manager of Reliability and Test Systems for Ultraviolet Devices, Inc. in Valencia, CA, where he directed reliability engineering and reliability growth testing programs for ultraviolet disinfection and sterilization equipment.

He holds a US Patent for HVAC sterilization equipment. Before that, he was the Deputy Program Manager of GPS Programs at Magnavox Advanced Systems in Torrance, CA, where the first production GPS receivers for military and civilian use were built. His professional career began at Hughes Aircraft Company after receiving his Master's Degree in Electrical Engineering from Cal State University, Northridge. He also taught Electrical Engineering as an instructor at his university. At Hughes, he participated in the electronic and digital design of radar and missile systems, including various black programs. Hughes also sponsored his post-Graduate work at USC. Prior to Hughes, he joined the US Air Force Auxiliary, became a pilot, and flew Search and Rescue (SAR) missions around LA and Ventura Counties. Thomas is an FAA-licensed Commercial Pilot and is also a former LAPD Police Officer, having worked street patrol in the Van Nuys Division and later in the Westchester Division.

12:00 – 12:40 pm, October 15 (Thursday), 2026 – Keynote XII

Submissions Received from Countries and Territories

- | | | | |
|---------------|-------------|------------------|-----------------|
| 1. Australia | 9. Germany | 17. Mexico | 25. South Korea |
| 2. Bangladesh | 10. Ghana | 18. Morocco | 26. Taiwan |
| 3. Bolivia | 11. Greece | 19. Pakistan | 27. Thailand |
| 4. Brazil | 12. India | 20. Peru | 28. Türkiye |
| 5. Canada | 13. Iran | 21. Philippines | 29. UK |
| 6. China | 14. Japan | 22. Poland | 30. USA |
| 7. Colombia | 15. Kuwait | 23. Saudi Arabia | |
| 8. Egypt | 16. Lebanon | 24. South Africa | |
-

University Partners

1. Binghamton University, The State University of New York (SUNY), USA
2. Florida Polytechnic University, USA
3. Eastern Michigan University, Ypsilanti, Michigan, USA
4. Lawrence Technological University, Southfield, Michigan, USA
5. University of the District of Columbia, Washington, DC, USA
6. Wayne State University, Detroit, Michigan, USA
7. BESTIU – Bharatiya Engineering Science Technology Innovation University, Gownivaripaill, Gorantla, AP, India
8. BIM – Bangladesh Institute of Management
9. Prince Sultan University, Riyadh, Saudi Arabia
10. Universite De Lorraine, Nancy cedex – France
11. Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia
12. University of Derby, UK
13. University of Monterrey (UDM), Mexico
14. University of New Brunswick at Fredericton, Canada

Corporate Partners

1. Airbus
 2. Amatrol Inc.
 3. aThingz
 4. Cintas
 5. Daikin Applied
 6. Eaton
 7. Ford Motor Company
 8. FUTEK
 9. Hexaly
 10. SIEMENS
 11. Tooling Tech Group
-

Panels

2:30 – 4:00 pm – Day 1 (October 13, 2026)

Panel on Lean Six Sigma

Panel Chair



Dr. Leonard (Lenny) Perry
Associate Professor, Industrial and Systems Engineering
Director of Industry Partner Program
University of San Diego
San Diego, California, USA

Dr. Leonard A. Perry, Ph.D., is an Associate Professor of Industrial and Systems Engineering and Director of the Industry Partner Program at the University of San Diego. He holds a B.S. in Industrial and Systems Engineering from Ohio University, an M.S. in Industrial Engineering from Clemson University, and a Ph.D. in Industrial Engineering from Arizona State University, where his doctoral research focused on quality improvement.

Dr. Perry's expertise includes Six Sigma, quality improvement, applied statistics, process improvement, engineering education, and industry-engaged engineering projects. His scholarly and professional work includes the integration of Six Sigma into industrial engineering education and the application of industrial engineering

methods to manufacturing and service systems. Through the University of San Diego's industry partnerships, he has led and supervised projects addressing production improvement, inventory management, setup and changeover reduction, and other real-world process improvement challenges.

Panel Speaker I



Ramiro Contreras
Operations Manager, Live Pacha (Pacha Bread)
San Marcos, California

Ramiro Contreras is an operations and manufacturing leader with experience spanning textile and apparel, custom manufacturing, aerospace, AgTech, and food manufacturing. A Lean Six Sigma Green Belt, he has led operations across production, quality, warehousing, logistics, supply chain, and continuous improvement.

Throughout his career, Ramiro has combined Lean principles, technology, data analytics, automation, and AI to improve operational performance, decision-making, and efficiency. He has also collaborated with AI-powered computer vision companies to develop solutions that provide actionable operational data in real time.

His leadership philosophy centers on developing people, eliminating waste, embracing technology with purpose, and leaving every operation better than he found it.

Panel Speaker II



Kaveh Houshmand Azad
Associate Administrator
Keck Operating System and Continuous Improvement
Keck Medicine of USC
University of Southern California
Los Angeles, California

Dr. Kaveh Houshmand Azad is an Industrial and Systems Engineer and continuous improvement leader with more than 25 years of experience across healthcare, manufacturing, R&D, and higher education. His work focuses on Lean, Six Sigma, systems thinking, process optimization, and performance excellence. He holds a doctorate in Organizational Change and Leadership from the University of Southern California and has served as a Baldrige Examiner. He has presented nationally and internationally on Lean, systems improvement, and organizational

transformation. He currently serves as Associate Administrator for the Keck Operating System and Continuous Improvement at Keck Medicine of USC, leading system-wide efforts to strengthen operational performance and continuous improvement.

Panel Speaker III



Casey Campbell
Senior Director, Business Excellence
Edwards Lifesciences
Irvine, California

Senior Operations and Business Excellence leader with 30 years experience across nine medical-device manufacturing plants at Edwards Lifesciences and 3M Co. A pioneer for development and deployment of scalable Lean solutions across the Global Supply Chain network.

4:30 – 6:00 pm – Day 1 (October 13, 2026)

Panel on Innovation and Entrepreneurship

Panel Chair



Dr. Sina Zare
Assistant Professor, Information Systems and Business Analytics
College of Business Administration
Loyola Marymount University
Los Angeles County, California

Dr. Sina Zare is an Assistant Professor of Information Systems and Business Analytics at Loyola Marymount University's College of Business Administration. He holds a Ph.D. in Management Science from the University of Texas at Arlington and an M.S. in Production Engineering and Management from KTH Royal Institute of Technology in Sweden. His research focuses on behavioral operations management, behavioral decision-making, family business, AI-driven operations, data analytics, and supply chain and operations management, with particular interest in how human behavior, organizational context, and emerging technologies shape managerial decisions and performance. Dr. Zare's interdisciplinary work bridges academia and practice through collaborations with industry leaders, startups, family enterprises, and organizations across multiple sectors. He is also actively involved in international academic and professional communities through research, industry engagement, panel leadership, and initiatives connecting entrepreneurial thinking with data-driven innovation and operational excellence.

Panel Speaker I



Dr. David Choi
Conrad N. Hilton Chair of Entrepreneurship
Loyola Marymount University
Los Angeles, California, USA

Dr. David Choi is the Conrad N. Hilton Chair of Entrepreneurship at Loyola Marymount University, where he also serves as Director of the Fred Kiesner Center for Entrepreneurship. He has been instrumental in building LMU's nationally recognized entrepreneurship program, which includes a top-ranked undergraduate major and MBA specialization, a master's program focused on entrepreneurship and sustainable innovation, and a center for family businesses. He also serves as Faculty Director for Ascend LA, a training program for women and minority entrepreneurs. Professor Choi writes broadly in the areas of entrepreneurship and innovation and is co-author of Values-Centered Entrepreneurs and Their Companies. He is a recipient of LMU's President's Fritz B. Burns Distinguished Teaching Award and serves as an advisor to several firms. Professor Choi received his B.S. and M.S. in Industrial Engineering from UC Berkeley and his Ph.D. in Technology Management from UCLA.

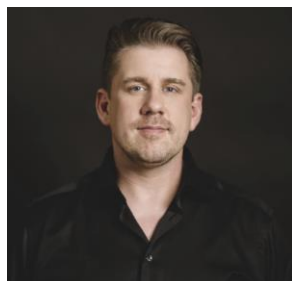
Panel Speaker II



Akhil Oltikar
Co-founder & CEO of Omnicis
San Diego, California, USA

Akhil Oltikar is a supply chain technology executive and entrepreneur with more than 25 years of experience helping global companies improve operational and financial performance. He has advised companies on supply chain and operations strategy and led initiatives across network design, inventory, planning, and S&OP—delivering significant cost reductions, greater flexibility, and stronger business performance. Akhil is the Co-founder and CEO of Omnicis, an enterprise software platform that transforms fragmented supply chain data into faster planning, smarter decisions, and timely action. He began his career at Remix Technologies, an early pioneer in supply chain modeling and simulation software that was acquired by Flex. During his 13 years at Flex, Akhil ultimately led the SimFlex Group, an independent business division providing supply chain design software and advisory services to Fortune Global 500 companies. Akhil holds a bachelor's degree in Production Engineering from the University of Mumbai and a master's degree in Industrial Engineering from North Carolina State University.

Panel Speaker III



Will Wollack
Operations & Technology Executive
Industrial Innovation | AI-Enabled Transformation
Orange County, California, USA

Will Wollack has built operations from the ground up across some of the most demanding industries in the world including semiconductor, defense, climate technology, and various reshore manufacturing. His career has been defined by joining organizations at inflection points: early enough to shape the foundation, and staying long enough to scale what works. He has a particular instinct for the moment when a startup's informal systems break down under growth and for rebuilding them faster, smarter, and with the emerging technologies others are still debating. Today that means AI and automation; earlier it meant whatever gave scrappy teams an edge over incumbents with ten times the resources. Will believes the best operational thinking comes from people who've had to make it work with limited resources, high stakes, and no manual.

4:30 – 6:00 pm – Day 2 (October 14, 2026)

Women in Industry and Academia Panel sponsored by Ford Motor Company

Panel Chair



Dr. Yasaman Ghasemi
Department of Information Systems and Business Analytics
Loyola Marymount University
Los Angeles, California

Dr. Yasaman Ghasemi is an Assistant Professor in the College of Business Administration at Loyola Marymount University (LMU) in Los Angeles, California. She earned her Ph.D. in Industrial Engineering from the University of Texas at Arlington. Prior to pursuing her doctoral studies, she earned an M.S. degree in Industrial Engineering. Her research focuses on behavioral operations management, healthcare analytics, simulation-based decision modeling, and the application of machine learning and emerging technologies to complex operational and supply chain systems.



Isela Scaglione
Vice President of Portfolio Management
Mattel Inc.
El Segundo, California

Isela Scaglione is Vice President of Portfolio Management at Mattel, where she leads efforts to drive strategic portfolio planning and cross-functional execution across the business. With more than 25 years of experience spanning manufacturing, product development, product planning, and portfolio management, she brings deep expertise in bringing innovative products from concept to market.



Akanksha Jouret
Sr. Manager of Portfolio Planning
Mattel Inc.
El Segundo, California

Akanksha Jouret is Sr. Manager of Portfolio Planning at Mattel, where she works with brands such as Fisher Price, Hot Wheels, Action Figures, Building Sets and Games on portfolio planning and cross-functional execution across the business. She has been at Mattel for over 11 years in various roles across global supply chain right from logistics to supply planning to now portfolio planning.



Ingrid Greene
Clinical Assistant Professor
College of Business Administration
Loyola Marymount University
Los Angeles, California

Ingrid Greene is a Clinical Assistant Professor in the College of Business Administration at Loyola Marymount University. She holds a B.S. in Civil Engineering from Villanova University, an MBA in International Business from Thunderbird School of Global Management, and an M.A. in Strategic Communications from Pepperdine University. Her academic and professional experience spans business ethics and sustainability, entrepreneurship, organizational behavior, strategic communications, and consulting across the technology, finance, and construction sectors.



Priyanka Malla, PMP
Information Technology Project Manager, FBM
IEEE Senior Member | IEEE Orange County Section Secretary Officer

Priyanka Malla is an Information Technology Project Manager, based in Orange County, California, where she leads an enterprise technology portfolio spanning AI/ML, ERP modernization, cloud infrastructure, and identity governance across multiple sites nationwide. She is also an AI project manager at her organization, owning the company's entire AI initiative portfolio, having built the delivery capability from the ground up. Prior to FBM, Priyanka worked as a TPM at Glidewell Dental and as a Project Engineer at Wipro Technologies, supporting global enterprise clients including Intel, Daimler, and Electrolux. She earned her Master of Science in Management Information Systems from California State University, Long Beach. Her professional credentials include PMP certification from PMI, AWS Machine Learning Foundations, IBM Enterprise Design Thinking, and Google Analytics. Priyanka is a

published researcher with peer-reviewed papers in international journals covering Agile methodologies, AI-driven automation, and enterprise vendor optimization. She bridges industry and academia through active leadership across multiple professional organizations, serving as Mentorship Coordinator at the PMI Orange County Chapter, Secretary Officer of the IEEE Orange County Section, and Content Committee Member at PDMA.

Her expertise has been recognized through judging roles at the Regeneron International Science and Engineering Fair (Grand Award Judge, Software Design), FIRST LEGO League, and CSUF Center for Entrepreneurship. She was elevated to IEEE Senior Member in October 2025.

2:30 – 4:00 pm – Day 2 (October 14, 2026)

AI Powered Engineering Panel

Panel Chair



Dr. Hayder Zghair

**Associate Professor of Industrial Engineering and Director of STEM center Center
Southern Arkansas University (SAU), Magnolia, Arkansas, USA**

Dr. Hayder Zghair is Associate Professor of Industrial Engineering and Director of STEM center at Southern Arkansas University (SAU). Prior to joining SAU, he held academic appointments as Assistant Teaching Professor of Industrial and Manufacturing Engineering at Pennsylvania State University and Lecturer of Industrial and Manufacturing Engineering at Kettering University. Dr. Zghair's research and teaching interests span industrial engineering, manufacturing systems, automation, simulation, optimization, sustainability, and engineering education. His recent work focuses on emerging Industry 4.0 and Industry 5.0 technologies, including artificial intelligence (AI), Industrial Internet of Things (IIoT), smart sensors, digital transformation, and intelligent decision-support systems. He has authored and presented numerous peer-reviewed journal articles and conference papers in these areas. In addition to his academic responsibilities, Dr. Zghair actively collaborates with industry and professional organizations to advance workforce development, applied research, and sustainable engineering practices. He serves as senator of the College of Science and Engineering at the SAU faculty senate, and Chair of

the Southern Arkansas University Sustainability Committee and holds leadership roles in several national and international professional organizations. Dr. Zghair professional affiliations include ABET program evaluator, ATMAE program evaluator, President of the Manufacturing Division of ATMAE, Chair of the Academic-Industry Coalition Committee for Engineering for One Planet (EOP), and Faculty Advisor of the IEOM Student Research Chapter at SAU. Dr. Zghair had an Affiliate Researcher position with the Penn State Institute of Energy and the Environment and maintains active memberships in several professional societies, including IEOM Society International, ASEE, SAE International, ASME, and IISE. His current interests include AI-powered engineering systems, sustainable manufacturing, intelligent automation, and the future of engineering education in the age of artificial intelligence.

Panel Speakers



Mayra Bornacelly

**AI researcher, instructor, and applied analytics professional
University of Central Florida, Orlando, FL, USA**

Mayra Bornacelly is an AI researcher, instructor, and applied analytics professional specializing in fair, causal, explainable, and human-centered machine learning. She is pursuing a Ph.D. in Industrial Engineering at the University of Central Florida, where her work examines how AI can improve trust, reliability, and decision-making in human-machine collaboration. She holds an M.Sc. in Data Science from the University of Melbourne and brings extensive industry experience in data analytics, predictive modeling, and engineering information systems. Her recent scholarly contributions include BayesIntuit, reliability-aware neural decision systems, fairness under domain shift, causal reasoning, and structural reliability in learning-enabled systems. She has served as an instructor, invited speaker, conference reviewer, journal reviewer, and award-winning presenter. Her work contributes to the development of responsible, human-centered, and intelligent engineering systems.



Dr. Thomas Jones

**Assistant Professor of Industrial Engineering
Florida Polytechnic University**

Thomas Jones is an Assistant Professor of Industrial Engineering at Florida Polytechnic University with several years of industry experience. He holds a Bachelor of Science, Master of Science and PhD all in Industrial Engineering with specializations in Quality Systems and digital transformation. Dr. Jones carries certifications in Lean, Six Sigma, Operational Excellence, and Auditing which he has paired with work as a quality engineer and industrial engineer in the Aerospace and Defense and Automotive industries leading change and improvement. He has extensive experience in new product development and introduction, operational excellence including Lean Six Sigma, and in stabilizing processes. His research has centered on digital transformation and the implementation of Industry 4.0, with an emphasis on developing systems which are user friendly and easy to work with, and through this research he co-authored the book "Total Digital Transformation".



Dr. Galia Nedeltcheva

**Assistant Professor, Bulgarian Academy of Sciences
Institute of Information and Communication Technologies
Sofia, Bulgaria**

University lecturer and researcher with sound scientific research experience, working at the interface of science, knowledge, and policy in the field of Computer Science & Engineering. Industrial Management professional with Ph.D. in Industrial Engineering from the Polytechnic of Turin, Italy. Galia has performed extended postdoc research in Italy, Germany, and the USA. About eight years of experience as an Asst. Prof. in Software Engineering with Sofia University (Bulgaria), about 40 scientific publications in journals and conferences. Skilled in Cloud & Edge Computing, DevSecOps, IoT, Big Data Analytics, Machine Learning, Augmented Reality, and Blockchain. Holds a professional education certificate in Cloud and DevOps Continuous Transformation from the Massachusetts Institute of Technology. Giving talks at various international scientific conferences, numerous times serving as a conference session chair, and a reviewer for a number of scientific journals and conferences. President of the IEOM society chapter in Bulgaria. EC expert evaluator and reviewer of Horizon 2020 scientific projects. Currently, working

on EU projects in the field of ICT.

Plenary Speakers

2:30 – 4:00 pm – Day 1 (October 13, 2026)

2:30 – 2:50 pm – Day 2 (October 14, 2026)



Dr. Ankit Gupta, Ph.D.
Assistant Professor
Engineering and Technology
California State University
Los Angeles, USA

Dr. Ankit Gupta is an Assistant Professor in the Department of Engineering and Technology at California State University, Los Angeles. His research and teaching interests focus on advanced manufacturing, additive manufacturing and 3D printing, advanced materials, composite materials, manufacturing processes, and product design and development. His research includes the fabrication, characterization, computational modeling, and analysis of polymer, metal, and composite materials produced through advanced manufacturing technologies. Dr. Gupta has conducted research on fiber-reinforced additive manufacturing, high-temperature polymers, metal material extrusion, functionally graded materials, and computational modeling of additively manufactured components. His work has been published in journals including the Journal of Manufacturing Processes, International Journal of Advanced Manufacturing Technology, Composite Structures, Composites Part B, and Journal of Composite Materials, as well as in the Springer Handbook of Additive Manufacturing. He is also actively engaged in hands-on engineering education, student design projects, and the application of advanced manufacturing technologies. His teaching interests include conventional and advanced manufacturing processes, materials science, mechanics of materials, CAD, product design and development, additive manufacturing, and lean manufacturing. Dr. Gupta received his Ph.D. in Mechanical Engineering from Tennessee Technological University, M.S. in Mechanical Engineering from the Indian Institute of Technology (Indian School of Mines), Dhanbad, and B.S. in Mechanical Engineering from Kurukshetra University, India.

2:50 – 3:10 pm – Day 2 (October 14, 2026)



Dr. Alireza Kavianpour
Ph.D., Electrical Engineering, USC, CA, USA
Senior Professor, DeVry University, CA, USA
Adjunct Professor, UCI, CA, USA

Dr. Kavianpour has published over 100 research papers and has served as a Program Committee member and Chair for several conferences. He holds a patent in image processing and is the author of a book that has been translated into Farsi. He has worked as a consultant at Qualcomm in San Diego, CA, and was an invited lecturer at ICTP (International Center for Theoretical Physics) under UNESCO/the United Nations. He has also served as a subject-matter expert in several patent disputes. He is a five-time recipient of the Outstanding Professor Award from UCI and previously served as an Associate Professor at Sharif University.

3:10 – 3:30 pm – Day 2 (October 14, 2026)

3:30 – 3:50 pm – Day 2 (October 14, 2026)

Workshops

4:00 – 6:00 pm, Tuesday, October 13, 2026 (Onsite Room 3)

Emotional Intelligence and Leadership Workshop



Dr. Tony Prensa, PhD, MBA, PMP, CB-PMO, CCP, ITIL, 6σ
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA

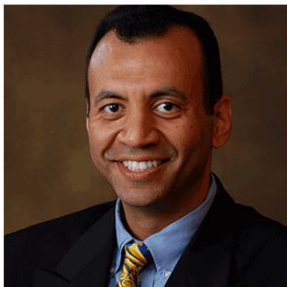
Dr. Prensa is a highly accomplished executive and leader of project management office (PMO), project/portfolio management, information systems and technologies, combines a Doctorate in Organizational Leadership with a major in Information Systems and Technologies, Certified PMO Professional, Authorized PMO Instructor, Certified Project Management (PMP), and ITILIV certification with extensive experience managing and overseeing large information systems projects/programs, strategic planning, and seamless IT implementations.

Adept at reengineering business processes, change management and IT infrastructure with business visions to drive profitability, efficiency, and growth within the organization. Proficient at ensuring all processes comply with regulatory requirements and IT governance practices. Excellent communicator with strong influencing and problem-solving skills. Strong leadership skills and demonstrated ability to lead team members and external business contacts including stakeholders such as consultants, partners and vendors. Demonstrated track record of delivery of multiple technical and business projects on time and within budget. Experience in full-lifecycle project management methodologies and tools. Dr. Prensa has been involved with the Project Management Institute for more than twenty-five years. He served a vice president of PMI Puerto Rico Chapter from 1998-2000. He also volunteered in many activities to promote project management and participated of writing PMP exam questions workshop in Dallas, Texas in 2002. Dr. Prensa has helped hundreds of project management professionals to get prepared for the PMP exam. Dr. Prensa has taught project management for several universities in the country, including Virginia Technical University, Grand Canyon University, Colorado Technical University, University of Phoenix and currently teaching for Walden University. With more than 25 years of teaching experience in various formats, face-to-face and virtual. Dr. Prensa has developed techniques to connect with learners and students in the most efficient way. Dr. Prensa has extraordinary people skills, he always puts people first.

2:30 – 4:00 pm, Wednesday, October 14, 2026 (Onsite Room 3)

Student Career Planning and Development Workshop / Panel

Chair



Dr. Ali Abbas
Professor of Industrial and Systems Engineering
University of Southern California
Los Angeles, California, USA

Dr. Ali Abbas is Professor of Industrial and Systems Engineering at the University of Southern California. He is author, coauthor, and editor of numerous books including (i) Foundations of Decision Analysis, with Ronald A. Howard, (ii) Foundations of Multiattribute Utility, (iii) Next Generation Ethics, and (iv) Ethical Decision Quality: Building an Ethical Decision Culture. He also served as the Director of the Neely Center for Ethical Leadership and Decision-Making, and the Center for Risk and Economic Analysis of Threats and Emergencies (CREATE).

He received the Decision Analysis Society Best Paper Award in 2011, the IEEE Systems Council Best Publication Award in 2019, and the Clemen-Kleinmuntz Best publication award in Decision Analysis in 2026. He has been involved in numerous high-stakes decisions including the analysis of TSA-Pre decisions with the Chief Risk Officer of the TSA.

Dr. Abbas regularly teaches courses on decision analysis and has taught numerous executive education courses at a variety of institutions, such as Stanford University, BP, Southern California Edison, the Department of Homeland Security, and numerous other institutions. In addition to his academic career, Dr. Abbas is recipient of the first cohort of NSF I-Corps award where he founded Ahoona, a decision making social network that has several thousand users around the world.

Members



Dr. Leonard (Lenny) Perry
Associate Professor, Industrial and Systems Engineering
Director of Industry Partner Program
University of San Diego
San Diego, California, USA

Dr. Leonard A. Perry, Ph.D., is an Associate Professor of Industrial and Systems Engineering and Director of the Industry Partner Program at the University of San Diego. He holds a B.S. in Industrial and Systems Engineering from Ohio University, an M.S. in Industrial Engineering from Clemson University, and a Ph.D. in Industrial Engineering from Arizona State University, where his doctoral research focused on quality improvement.

Dr. Perry's expertise includes Six Sigma, quality improvement, applied statistics, process improvement, engineering education, and industry-engaged engineering projects. His scholarly and professional work includes the integration of Six Sigma into industrial engineering education and the application of industrial engineering methods to manufacturing and service systems. Through the University of San Diego's industry partnerships, he has led and supervised projects addressing production improvement, inventory management, setup and changeover reduction, and other real-world process improvement challenges.



Dr. Sina Zare
Assistant Professor, Information Systems and Business Analytics
College of Business Administration
Loyola Marymount University
Los Angeles County, California

Dr. Sina Zare is an Assistant Professor of Information Systems and Business Analytics at Loyola Marymount University's College of Business Administration. He holds a Ph.D. in Management Science from the University of Texas at Arlington and an M.S. in Production Engineering and Management from KTH Royal Institute of Technology in Sweden. His research focuses on behavioral operations management, behavioral decision-making, family

business, AI-driven operations, data analytics, and supply chain and operations management, with particular interest in how human behavior, organizational context, and emerging technologies shape managerial decisions and performance. Dr. Zare's interdisciplinary work bridges academia and practice through collaborations with industry leaders, startups, family enterprises, and organizations across multiple sectors. He is also actively involved in international academic and professional communities through research, industry engagement, panel leadership, and initiatives connecting entrepreneurial thinking with data-driven innovation and operational excellence.

4:00 – 6:00 pm, Wednesday, October 14, 2026

Entrepreneurship Workshop

Workshop Facilitator: Professor Don Reimer, Lawrence Tech, MI, USA

Each team will develop an idea to solve an engineering problem that may have commercial potential. They will develop a business plan using the business model canvas. Teams will compete for prizes with best ideas and best commercial potentials. Students need to bring their laptops. Innovation and Entrepreneurship Workshop – A hands-on interactive learning experience

This workshop has been designed to encourage participants in a hands-on interactive learning experience on the development of the entrepreneurial mindset

Topics:

- Idea Generation
- Opportunity Recognition
- Ventura Creation
- Value Creation
- Understanding and working with the Business Model Canvas as a validation tool
- Identifying "Customer Segments" and the "Customer Archetype"
- Introduction to the Business Planning Process

Join us for an exciting and interactive learning experience on how to make your dream a reality.



Professor Donald M. Reimer
Chief Operating Officer, 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.

4:00-6:00 pm, Thursday, October 15, 2026

Six Sigma Workshop

IEOM Six Sigma Yellow Belt (IEOM-SSYB)

IEOM Six Sigma Green Belt (IEOM-SSGB)

Speaker: Dr. Ahad Ali, Lawrence Technological University, Southfield, Michigan, USA

Six Sigma Certification Topics

Six Sigma Fundamentals

Define

Project Charter

Process Maps, SIPOC, Matrix Diagrams, Critical to Quality (CTQ)

Metrics, and DPMO

Pareto Chart

SIPOC

Measure

Process analysis

Probability, Statistics and Distribution

Data collection and analysis

Gage Repeatability and Reproducibility (R&R)

Process capability

X-Bar Charts, Run Charts, Moving Average Charts, EWMA Charts,

Attribute Charts, Takt Time, Standardization, Spaghetti Diagrams,

and Setup Reductions

Analyze

Value Stream Map

Hypothesis Testing

Goodness of fit test

Regression Analysis

Cause & Effect Diagrams

Scatter Diagrams

ANOVA

Confidence Interval

Improve

Lean Tools to reduce NVA: 5S, Kaizen, Seven Zeros, TPS

Principles, FMEA, and Simulation

Design of Experiments (DOE)

Statistical Process Control (SPC)

Analysis of Variance (ANOVA)

Solutions Validation

Control

Control Plan

SPC

Tracking

DFSS



Dr. Ahad Ali

Associate Professor

Director of Doctor of Engineering in Advanced Manufacturing

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

Executive Director, IEOM Society International

Dr. Ahad Ali is an associate professor, director of doctor of engineering in advanced manufacturing and director of industrial engineering programs (BSIE & MSIE) at A. Leon Linton Department of Mechanical, Robotics, and

Industrial Engineering of the Lawrence Technological University (LTU), Southfield, Michigan, USA. He established the Siemens Electro-Matic Industrial Engineering Lab at LTU. Dr. Ali was the primary author of the ABET self-study report of the BSIE Program at LTU in 2022. He earned a BS in Mechanical Engineering from Khulna University of Engineering and Technology (KUET), Bangladesh, a Master's in Systems and Engineering Management from Nanyang Technological University, Singapore, and a Ph.D. in Industrial Engineering from the University of Wisconsin-Milwaukee, USA. Dr. Ali was an Assistant Professor in Industrial Engineering at the University of Puerto Rico - Mayaguez, a Visiting Assistant Professor in Mechanical, Industrial, and Manufacturing Engineering at the University of Toledo, and a Lecturer in Mechanical Engineering at the Bangladesh Institute of Technology, Khulna. He received an Outstanding Professor Award from the Industrial Engineering Department, University of Puerto Rico - Mayaguez. Dr. Ali has been recognized with a Fulbright Award. He has published 75 journal papers and 150 conference papers. Dr Ali conducted research projects with Chrysler, Ford, DTE Energy, New Center Stamping, Whelan Co., Delphi Automotive System, GE Medical Systems, International Truck and Engine Corporation (ITEC), and Rockwell Automation. His research interests include manufacturing systems, quality, lean, six-sigma, simulation, artificial intelligence, supply chain, and optimization. He supervised 11 doctoral students in Doctor of Engineering in Manufacturing Systems (DEMS). He is a founder executive director of IEOM Society International. Dr. Ali is a Co-Chair of the International Conference on Industrial Engineering and Operations Management. Dr. Ali organized IEOM conferences around the globe on six continents including Ankara, Augsburg, Bali, Bangkok, Bogota, Bristol, Cape Town, Costa Rica, Delhi, Detroit, Dhaka, Dubai, Hyderabad, Istanbul, Johannesburg, Kuala Lumpur, Lima, Manila, Melbourne, Milwaukee, Monterrey, Muscat, Orlando, Panama, Paris, Pilsen, Rabat, Riyadh, Sao Paulo, Sydney, Tokyo, Toronto, Vellore, Washington, DC and Windsor. He is an associate editor of the IJIEOM, Q1-Scopus indexed. Dr. Ali is a member of IEOM, INFORMS, SME, and IEEE.

Conference Committee

Conference Chairs:

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 Dr. Ahad Ali, Associate Professor and Director of Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA and CEO, IEOM Society

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 Dr Abdur Rahim, University of New Brunswick at Fredericton, Canada
 Dr Charles Mbhwa, University of South Africa
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Senthilkumar Thiyyagarajan, Sr Analyst Supply Chain, Medline Industries, LP, Chicago, USA
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Jeremy Gabriel Uy, Department of Industrial and Systems Engineering, De La Salle University, Manila, Philippines
Md. Sourove Akther Momin, Senior Deputy Operative Director, Walton Hi-Tec. Ind. PLC., Dhaka, Bangladesh

Dr. Rajeswara Rao K V S, Associate Professor & HoD, Dept. of Industrial Engineering and Management, RV College of Engineering, Bengaluru, India
Dr. Ali Arishi, Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

Overall Conference Program

Pre-Conference – Plant Tour at FUTEK

13:00 – 15:00, Monday, October 12, 2026 – FUTEK Advanced Sensor Technology Plant in Irvine, California

Day 1 (October 13, 2026 – Tuesday)

- 7:00 – 17:00 – Registration
 - 8:00 – 9:30 – Parallel Sessions
 - 9:30 – 10:00 – Break
 - 10:00 – 13:00 – Keynotes
 - 13:00 – 14:00 – Lunch
 - 14:00 – 15:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
 - 15:30 – 16:00 – Break
 - 16:00 – 17:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
 - 18:00 – 19:00 – Tour: The Center for Research Advancement in Smart Manufacturing (CREST-RASM) at Cal Poly Pomona, 3801 West Temple Avenue, Pomona, California 91768 (Building 17, First floor, Room # 1659)
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Day 2 (October 14, 2026 – Wednesday)

- 7:00 – 17:00 – Registration
 - 8:00 – 9:30 – Parallel Sessions
 - 9:30 – 10:00 – Break
 - 10:00 – 13:00 – Keynotes
 - 13:00 – 14:00 – Lunch
 - 14:00 – 15:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
 - 15:30 – 16:00 – Break
 - 16:00 – 17:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
 - 19:00 – 22:00 – Awards Dinner
-

Day 3 (October 15, 2026 – Thursday)

- 7:00 – 17:00 – Registration
 - 8:00 – 9:30 – Parallel Sessions
 - 9:30 – 10:00 – Break
 - 10:00 – 13:00 – Keynotes
 - 13:00 – 14:00 – Lunch
 - 14:00 – 15:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
 - 15:30 – 16:00 – Break
 - 16:00 – 17:30 – Parallel Sessions (Panel + Technical Sessions) – Rooms 1-3
-

Tours

FUTEK Advanced Sensor Technology Plant Visit in Irvine

Monday, October 12, 2026 | 1:00–3:00 PM

Participants will have the opportunity to visit FUTEK Advanced Sensor Technology, Inc., an Orange County advanced sensor manufacturer and the organization led by Conference Chair Mr. Javad Mokhbary. The visit will provide participants with an opportunity to learn about advanced sensors, precision manufacturing, quality systems, engineering, automation, and real-world manufacturing operations.

The Center for Research Advancement in Smart Manufacturing (CREST-RASM)

Tuesday, October 13, 2026 | 6:00 – 7:00 pm, Building 17, First floor, Room # 1659

Cal Poly Pomona, 3801 West Temple Avenue, Pomona, California 91768

<https://www.cpp.edu/crest/index.shtml>

Conference Schedule

Plant Tour, October 12, 2026 – 1:00 – 3:00 pm – FUTEK, Irvine

Day 1 – October 13, 2026 (Tuesday)

07:00 - 17:00	Registration			Zoom Room
08:00 - 09:30	Technical Session – Room 1	Technical Session – Room 2	Technical Session – Room 3	8:00 – 10:00 SCM and Competitions
	Advanced Manufacturing Technologies	Graduate Student Paper Competition sponsored by Eaton Corporation	Supply Chain and Logistics	
09:00 - 10:00	Break			10:00 – 12:00 Sustainability and Energy
10:00 - 10:40	Keynote 1: Javad Mokhbery , CEO and President, FUTEK Advanced Sensor Technology, Inc., Irvine, California, United States			
10:40 - 11:20	Keynote 2: Andy Zhou , Founder, Defense Technology Engineer, Irvine, California, USA			12:00 – 14:00 Advanced Manufacturing Technologies
11:20 - 12:00	Keynote 3: Dr. Gopal Mohanty , Vice President of Regulatory, Quality, Compliance, and Clinical Affairs, Clarix Imaging, Moorpark, California and Assistant Professor, Department of Regulatory and Quality Sciences, University of Southern California			
13:00 - 14:30	Buffet Lunch			14:00 – 16:00 Quality
	Afternoon Technical Sessions – Breakout Rooms			
14:30 - 16:00	Room 1	Room 2	Room 3	16:00 – 18:00 High School STEM Competition
	Panel 1: Lean Six Sigma Panel	Undergraduate Research Competition sponsored by Daikin Applied Undergraduate Student Paper Competition sponsored by Siemens	Business Management and Operations Management	
16:00 - 16:30	Networking Tea Break			
	Poster Session 4:00 – 6:00 pm. Bring Your Printed Posters. Display Your Posters during the whole conference.			
16:30 - 18:00	Panel 2: Innovation and Entrepreneurship Panel	Engineering Education and Curriculum Improvement	Emotional Intelligence and Leadership Workshop	
19:00 – 20:00 – Tour: The Center for Research Advancement in Smart Manufacturing (CREST-RASM) at Cal Poly Pomona				

Day 2 – October 14, 2026 (Wednesday)

07:00 - 17:00	Registration			Zoom Room
08:30 - 09:30	Technical Session – Room 1	Technical Session – Room 2	Technical Session – Room 3	8:00 – 10:00 SCM
	Advanced Manufacturing Technologies	Supply Chain and Logistics		
9:40 - 10:20	Keynote 4: Dr. Peter J. Burke , Professor, Electrical Engineering and Computer Science and Professor, Biomedical Engineering, The Henry Samueli School of Engineering, University of California, Irvine, Irvine, California, USA			10:00 – 12:00 Business Management and OM
10:20 - 11:00	Keynote 5: Steve Harrington , Senior Advisor and Workforce Development Strategist, Manufacturing Skill Standards Council, Simi Valley, California, USA			12:00 – 14:00 Adv Manufacturing
11:00 - 11:40	Keynote 6: Richard Walker , Technical Director and Operations, FUTEK Advanced Sensor Technology, Inc., Orange County, CA			
11:40 - 12:20	Keynote 7: Dr. Maj Dean Mirmirani , Interim Dean of Engineering, Ohio Univeristy, Past Interim Dean, College of Engineering, Lawrence Technological University, Southfield, Michigan and Dean Emeritus of Engineering, Embry-Riddle Aeronautical University, Daytona Beach Campus. Florida			14:00 – 16:00 Simulation and Optimization
12:20 - 13:00	Keynote 8: Dr. Ali Abbas , Professor of Industrial and Systems Engineering, University of Southern California, Los Angeles, California			16:00 – 18:00 Competitions PhD Dissertation Undergraduate Paper and Research
13:00 - 14:30	Buffet Lunch			
	Afternoon Technical Sessions – Breakout Rooms			
	Room 1	Room 2	Room 3	
14:30 - 16:00	Plenary	Engineering Management and Project Management	Student Career Planning Workshop	
16:00 - 16:30	Networking Break			
16:30 - 18:00	Panel 3: Women in Indsutry and Academia Panel	AI in Manufacturing	Entreprenership Workshop	
19:00 – 22:00: Gala Dinner – Award Ceremony				

Day 3 – October 15, 2026 (Thursday)

08:00 - 17:00	Registration			Zoom Room
08:00 - 09:30	Technical Session – Room 1	Technical Session – Room 2	Technical Session – Room 3	8:00 – 10:00 Ergonomics
	Automation, Robotics and Autonomous Systems	Human Factors, Ergonomics and Healthcare Systems	Engineering Education and Experiential Learning	
10:00 - 10:40	Keynote 9: Dr. Amir Sajjadi, Ph.D., PMP, Founder & Lead Consultant, Utmost Connect, Irvine, California, USA			10:00 – 12:00 Engineering Management
10:40 - 11:20	Keynote 10: Dr. Luis Rocha Lona, Professor in Operations Management, IPN Business School, National Polytechnic Institute of Mexico (IPN), México City, Mexico			
11:20 - 12:00	Keynote 11: Thomas Bowles, MSEE, CQE, CQA, Director of Quality Assurance, FUTEK Advanced Sensor Technology, Inc., Orange County, California, United States			12:00 – 14:00 Entrepreneurship
12:00 - 12:40	Keynote 12:			
13:00 - 14:30	Buffet Lunch			14:00 – 16:00 AI in Manufacturing
	Room 1	Room 2	Room 3	
14:30 - 16:00	Panel 4 – AI Powered Engineering Panel	Simulation, Optimization and Productivity Improvement	Workshop	16:00 – 18:00 Engineering Education and Sustainability
16:00 - 16:30	Networking Break			
16:30 - 18:00	Quality, Reliability and Maintenance	Sustainability, Green Systems and Energy	Lean Six Sigma Green Belt Workshop	

Pre-Conference Tour

FUTEK Advanced Sensor Technology Plant Visit in Irvine

Monday, October 12, 2026 | 1:00–3:00 PM

October 13, 2026 (Tuesday) – Day 1

7:00 - 17:00 Registration

October 13, 2026 (Tuesday) - Session: 8:00 – 9:30

8:00 – 9:30, Tuesday

Onsite Breakout Room 1

Session Chair:

Advanced Manufacturing Technologies

ID 8 A Multi-Stage Framework for Intelligent Traffic and Logistics Monitoring via Accident Detection and Severity Estimation from Surveillance Videos

Jasim Alnahas, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Shahbaz Khan, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Abdulrahman Abdullah Alghofaili, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Omar Mohammed Alghamdi, Industrial Engineering Department, University of Tabuk, KSA
 Rayan Abdullah Alsharif, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Omar Mutir Alatawi, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Faisal Majed Madani, Department of Industrial Engineering, University of Tabuk, Tabuk 71491, Saudi Arabia
 Muhammad Bilal Yousaf, Department of Software Engineering, University of Engineering and Technology, Taxila, 47050 Pakistan
 Ali Javed, Department of Software Engineering, University of Engineering and Technology, Taxila, 47050 Pakistan

ID 5 A Simulation-Driven Machine Learning Approach for Securing AODV Against Blackhole Attacks in Vehicular Ad Hoc Networks (VANETs)

Abdulaziz Alshammari, Information Systems Department, College of Computer and Information Sciences, IMAMU, Riyadh, KSA

ID 40 Effects of Cutting Fluids and Tool Coating Materials on Tool–Workpiece Electrical Contact Resistance

Mitsuaki Murata, Professor, Department of Innovative Mechanical and Electrical Engineering, Faculty of Science and Engineering, Kyushu Sangyo University, 2-3-1 Matsukadai, Higashi-ku, Fukuoka, Japan
 Wenzheng Cao, Graduate School of Engineering, Department of Industrial Technology and Design, Kyushu Sangyo University, 2-3-1 Matsukadai, Higashi-ku, Fukuoka, Japan
 Hinata Ikeda, Department of Mechanical Engineering, Faculty of Science and Engineering, Kyushu Sangyo University, 2-3-1 Matsukadai, Higashi-ku, Fukuoka, Japan
 Ryotaro Matsumoto, Department of Mechanical Engineering, Faculty of Science and Engineering, Kyushu Sangyo University, 2-3-1 Matsukadai, Higashi-ku, Fukuoka, Japan

ID 102 Exploring the Biocompatibility of Additive Manufactured Poly Lactic Acid Products in Biomedical Field.

Kudzai Mudada
 Industrial Engineering
 Faculty of Engineering
 Stellenbosch University
 Stellenbosch, South Africa

Stephen Matope
 Professor: Advanced Manufacturing Engineering
 Industrial Engineering Department
 Faculty of Engineering
 Stellenbosch University
 Stellenbosch, South Africa

ID 156 Geographic Tiling System for ECW Aerial Imagery with GDAL-Based Coordinate Extraction and IDataMap Integration

Pranshu Desai, Graduate Research Assistant, School of Systems Science and Industrial Engineering Binghamton University Binghamton, New York, USA
 Sangwon Yoon, Professor, School of Systems Science and Industrial Engineering Binghamton University, Binghamton, New York, USA
 Arnaud Gain, Director ENSCO Avionics, Inc., Endicott, New York, USA
 Edward Parker, Senior Developer ENSCO Avionics, Inc., Endicott, New York, USA
 Yong Wang, Associate Professor and Associate School Director School of Systems Science and Industrial Engineering Binghamton University, Binghamton, New York, USA

October 13, 2026 (Tuesday) - Session: 8:00 – 9:30**8:00 – 9:30, Tuesday****Onsite Breakout Room 2**

Session Chair:

Graduate Student Paper Competition sponsored by Eaton Corporation**ID 155 Does Domain Specialization Improve RAG-Based Academic Advising? A Comparative Study of Single vs Multi-Agent Systems**

Hafiz Noman Javed, Southern Arkansas University, Magnolia, Arkansas, USA

Hayder Zghair, Southern Arkansas University, Magnolia, Arkansas, USA

High School STEM Competition**ID 3 Bacterial Cellulose Based Scaffolds for Controlled Oxygen Delivery in Low-Resource Regions**

Aarna Dwivedi and Goutham Koppolu, Independent, TX, United States

ID 285 From Item Analysis to Personalized Learning: Using JMP to Adapt MCQ-Based Test Preparation

William Lu, independent, Taiwan

ID 286 Predictive Modeling of Patient Health and Cellular Outcomes Using Cell Size

William Lu, Independent, Taiwan

ID 287 Sex Differences in Health, Behavioral, and Socioeconomic Factors Associated With Depressive Symptoms Among Korean Adolescents: A Cross-Sectional Analysis of the 2025 Korea Youth Risk Behavior Survey

Palos Verdes Peninsula High School Rolling Hills Estates, California, USA

Senior Design Project Competition**ID 288 Design, Analysis, Additive Manufacturing, and Testing of a Lightweight Fixed-Wing Aircraft**

Derrick Lopez, Kathya Nava, Justin McDonough, Luke Qian, Oscar Ornelas, Ankit Gupta, Rupa Purasinghe, and Michael Thorburn, College of Engineering, Computer Science, and Technology, California State University, Los Angeles, Los Angeles, CA, USA

October 13, 2026 (Tuesday) - Session: 8:00 – 9:30**8:00 – 9:30, Tuesday****Onsite Breakout Room 3**

Session Chair:

Supply Chain and Logistics**ID 24 Generative AI, Geopolitical Risk, and Sustainable Supply Chain Resilience in Emerging Economy Manufacturing: Evidence from Bangladesh's Ready-Made Garment Sector**

Md. Shahidul Islam, University of Science and Technology Beijing (USTB), China Beijing, China

ID 150 Reverse Logistics in Military and Defense Supply Chains: Systematic Review 2015-2026

Paloma María Teresa Martínez-Sánchez, David Alejandro Rincón Castro and Ximena Lucía Pedraza Najar, Universidad Militar Nueva Granada, Bogotá, Colombia

ID 214 Reward Function Design in Reinforcement Learning for Electric Vehicle Routing Problems: A Review and Research Directions

Emine Gülşen Torunoğlu Aslan, Graduate School of Natural and Applied Sciences, Gazi University, Ankara, Türkiye

Gonca Yıldırım and Selçuk Kürşat İşleyen, Faculty of Engineering, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 7 Stress-Conditioned Monte Carlo Modeling of Stockout Risk on the Savannah-Atlanta Lane

Neil Sharma and Aditya Manchanda, Independent Researchers, Alpharetta, GA, USA

9:30 – 10:00 Networking Break**October 13, 2026 (Tuesday) - Session: 10:30 – 13:00****10:00 – 13:00, Tuesday****Onsite Ballroom (Room 1)****Keynotes**

10:00 – 10:40 am, October 13 (Tuesday), 2026 – Opening Keynote

Javad Mokhbery
CEO and President
FUTEK Advanced Sensor Technology, Inc.
Irvine, California, United States

10:40 – 11:20, October 13 (Tuesday), 2026 – Keynote II

Andy Zhou
Founder, Defense Technology Engineer
Irvine, California, USA

Presentation Title: “AI Designed It. I Printed It. It Flew.” — Building an Autonomous Interceptor with Generative CAD and Desktop Additive Manufacturing

11:20 – 12:00, October 13 (Tuesday), 2026 – Keynote III

Gopal Mohanty, PhD
Vice President of Regulatory, Quality, Compliance, and Clinical Affairs
Clarix Imaging
Moorpark, California
Assistant Professor, Department of Regulatory and Quality Sciences, University of Southern California

Presentation Title: Driving Operational Excellence, Regulatory Readiness, and Scalable Innovation in Advanced Manufacturing

13:00 – 14:30 – Buffet Lunch

October 13, 2026 (Tuesday) - Session: 14:30 – 16:00

14:30 – 16:00, Tuesday

Onsite Ballroom (Room 1)

Panel I - Lean Six Sigma Panel

Panel Chair

Dr. Leonard (Lenny) Perry
Associate Professor, Industrial and Systems Engineering
Director of Industry Partner Program
University of San Diego, California, USA

Panel Speaker I

Ramiro Contreras
Operations Manager, Live Pacha (Pacha Bread)
San Marcos, California

Panel Speaker II

Kaveh Houshmand Azad
Associate Administrator
Keck Operating System and Continuous Improvement
Keck Medicine of USC, University of Southern California
Los Angeles, California

Panel Speaker III

Casey Campbell
Senior Director, Business Excellence
Edwards Lifesciences, Irvine, California

October 13, 2026 (Tuesday) - Session: 14:30 – 16:00**14:30 – 16:00, Tuesday****Onsite Breakout Room 2**

Session Chair:

Undergraduate Research Competition sponsored by Daikin Applied**ID 18 An Analytical Framework for Baseball Pitcher Deception: Applications in Coaching and Player Development**

Nolan Nicassio and Puneet Agarwal, Department of Industrial and Manufacturing Engineering, California Polytechnic State University, San Luis Obispo, San Luis Obispo, CA 93407, USA

Undergraduate Student Paper Competition sponsored by Siemens**ID 17 Beyond True or False: A Comparative Evaluation of Large Language Models for Credibility and Misinformation Assessment**

Thomas Jewett, Charles Kealey, Arya Pehlivanoglu, Justin Sweet, Joseph Hubner, Alan Sebastian and Puneet Agarwal, Industrial & Manufacturing Engineering Department, California Polytechnic State University, San Luis Obispo, California, USA

ID 20 Design and Development of a Sales, Inventory, and Operations Planning Decision-Support Application for Craft Breweries

Saanika Gupta Medishetty, Helene Johnson, Jill Speece and Mohamed Awwad, California Polytechnic State University, San Luis Obispo, California, USA

ID 25 Edge AI Vision Model for Catheter Shaft Inspection

Rafael M. Chavez, Neha Dossani and Jiaxin (Roger) Jiao, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology Atlanta, Georgia, USA

ID 81 Gender Gaps in The Educational Pathway to Engineering: A Systematic Review of Participation, Retention, And Recognition

Daniela Janeth Florez Rodriguez, Undergraduate Student, Industrial Engineering Program, Faculty of Engineering, Universidad Militar Nueva Granada, Bogotá, Colombia

Maria Valentina Ruiz Morales, Undergraduate Student, Industrial Engineering Program, Faculty of Engineering, Universidad Militar Nueva Granada Bogotá, Colombia

Paloma Maria Teresa Martinez Sanchez, Faculty of Engineering, Universidad Militar Nueva Granada, Bogotá, Colombia

October 13, 2026 (Tuesday) - Session: 14:30 – 16:00**14:30 – 16:00, Tuesday****Onsite Breakout Room 3**

Session Chair:

Business Management and Operations Management**ID 115 Benchmarking New York Cider Company Profiles on Untappd: A Composite Index of Ratings and Platform Activity**

Mohana Siva Sai Yasodhar Golleru, PhD Student, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, New York, USA

Angadsingh Kanvar, PhD Student, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, New York, USA

Yong Wang, Associate Professor and Associate School Director, School of Systems Science and Industrial Engineering, Binghamton University Binghamton, New York, USA

ID 65 Catastrophic Events Simulation and Options for Response

Einar Ulfsson PE, Adjunct Professor of Supply Chain Management, Fairfield University, ME Cornell, CPIM, IEOR, PSIA., United States

ID 152 Financial Analytics for Corporate Supply Chain Resilience: A Machine Learning Approach

Regina Debrah, Graduate Student, Beacom School of Business, University of South Dakota (USD), Vermillion, SD, USA

Emmanuel Entsie, Assistant Audit Manager, Richard Owusu-Afriyie & Associates, Kumasi, Ashanti Region, Ghana

Kingsford Brakye, PhD Student, College of Business and Information Systems, Dakota State University (DSU), Madison, SD, USA

ID 12 Optimizing Inventory and Forecasting Simultaneously

Mohammed Abdulaziz Darwish, Industrial & Management Systems Engineering Department, Kuwait University, P.O. Box 5969, Safat, Kuwait

ID 23 Towards a Conceptual Framework for Assessing Organizational Readiness for 2D Code Implementation and Digital Product Traceability in the Food Industry

Witold Statkiewicz, Lecturer, Department of Management and Controlling, Poznan School of Logistics, Poznań, Poland

ID 14 Enhancing Hostel Mess Management: A Case Study on Implementing a Systematic Approach to Address Food Quality Complaints through Total Participation

Sumit Kumar, Assistant Professor, SLIET, India

16:00 – 16:30: Break

October 13, 2026 (Tuesday) - Session: 16:00 – 18:00

Poster Session (16:00 – 18:00: Day 1)

Bring Your Printed Posters

ID 6 Managing Priority and Secondary Customers in the Vehicle Routing Problem with Time Windows (VRPTW)

Maha Turki, Polytechnique Montréal, QC, Canada

ID 16 Improving Loading and Unloading Operations at a Food Industry Distribution Center Using Time Studies and Monte Carlo Simulation

Carolina Solís-Peña and Juan Manuel Hernández-Ramos, Faculty of Chemical Sciences, Department of Industrial Engineering with minor in Management, Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Nuevo León
German Rodriguez Barroso, Faculty of Mechanical and Electrical Engineering, Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Nuevo León

ID 19 Probabilistic Scenario-Based Decision Support for Multi-Source Coastal Oil Spill Risk Under Source Uncertainty: A Gulf of Mexico Case Application

Mauricio Torres-Torres, Carolina Solís- Peña, Elí Samuel Gonzalez- Trejo, María del Carmen Catache- Mendoza and Juan Manuel Hernández-Ramos, School of Chemical Science, Department of Industrial Engineering with minor in Management, Universidad Autónoma de Nuevo León San Nicolás de los Garza, Nuevo León, México

ID 31 Discrete Event Simulation of Emergency Movement Permitting During Foot-and-Mouth Disease Outbreaks

Bihter Ozhan Zaidi and Jessica L. Heier Stamm, Industrial & Manufacturing Systems Engineering, Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS 66506, USA
MaRyka R. Smith and Michael W. Sanderson, Center for Outcomes Research & Epidemiology, Diagnostic Medicine & Pathobiology College of Veterinary Medicine, Kansas State University, Manhattan, KS 66506, USA

ID 32 Robotic Welding in Industry

Cyrus Christensen, CSU Fresno, CA, United States

ID 35 Empirical Evaluation of the Analytic Hierarchy Process (AHP) Using Large Language Models (LLMs): A Study of Consistency and Structural Bias

Leonardo Hernandez, Carolina Solís – Peña, Azucena Minerva García-Leon and Jhonathan Cuellar- Celestino, Department of Industrial Engineering, Universidad Autónoma de Nuevo León, Mexico

ID 42 Effect of a Graphite Heat Spreader on Surface Temperature Uniformity of a Liquid-Cooled Solid-State Battery Cell

Samir Bhandari, Department of Mechanical Engineering, South Dakota State University, Brookings, South Dakota, USA
Dr. Huitian Lu, Ness School of Management, South Dakota State University, Brookings, South Dakota, USA

ID 151 Mixed Integer Linear Programming Transshipment Network Flow Model with Integrated Risk Sensitivity for the U.S. Manganese Supply Chain

Hasan Atiq Syed, Graduate Research Assistant, Industrial & Manufacturing Systems Engineering, Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS 66506, USA
Saurav Kumar Dubey, Associate Teaching Professor at Industrial & Manufacturing Systems Engineering, Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS 66506, USA

ID 153 The Organizational Architecture of AI Accountability: Board Oversight, Operational Responsibility, and Control

Eunseong Lee and Eunmyung Lee, Business Administration, Cypress College, Cypress, CA 90630, USA

ID 159 AI-Assisted Six Sigma Define-Measure-Analyze-Experiments Under Incomplete Manufacturing Information: Development and Validation of a Decision-Support Methodology in Manufacturing

Duc Hao Vu, Rupa Purasinghe, Ph.D., P.E., and Gopal P. Mohanty, Ph.D., Department of Technology, College of Engineering, Computer Science, and Technology, California State University, Los Angeles, California, USA

ID 243 Reduction of Second-Quality Reporting Discrepancies through Standardized Defect Registration in Stainless Steel Processing

Angel Fernando Medina Araya, Industrial Engineering, Universidad Politécnica de San Luis Potosí, San Luis Potosí, México

ID 258 Machine Learning for Operational Decision Support: Predicting Unsafe Air Quality Events in California

Bhavna Sreekumar and Christopher Strouse
M.S. in Business Analytics
College of Business Administration
Loyola Marymount University
Los Angeles, California, USA

Sarkis Shil-Gevorkyan
M.S. in Computer Science
Seaver College of Science and Engineering
Loyola Marymount University
Los Angeles, California, USA

October 13, 2026 (Tuesday) - Session: 16:30 – 18:00**16:30 – 18:00, Tuesday****Onsite Ballroom (Room 1)****Panel II****Panel on Innovation and Entrepreneurship**

Panel Chair

Dr. Sina Zare
 Assistant Professor, Information Systems and Business Analytics
 College of Business Administration
 Loyola Marymount University
 Los Angeles County, California

Panel Speaker I

Dr. David Choi
 Conrad N. Hilton Chair of Entrepreneurship
 Loyola Marymount University
 Los Angeles, California, USA

Panel Speaker II

Akhil Oltikar
 Co-founder & CEO of Omnics
 San Diego, California, USA

Panel Speaker III

Will Wollack
 Operations & Technology Executive
 Industrial Innovation | AI-Enabled Transformation
 Orange County, California, USA

October 13, 2026 (Tuesday) - Session: 16:30 – 18:00**16:30 – 18:00, Tuesday****Onsite Breakout Room 2**

Session Chair:

Engineering Education and Curriculum Improvement**ID 182 A Locally Controlled Human-in-the-Loop AI Architecture for Adaptive Learning and Authentic Assessment in Polytechnic Computing Education**

Zulfiqar Ali, Professor, British Columbia Institute of Technology (BCIT), Computer Information System Administration (CISA), School of Energy(SoE), 3700 Willingdon Avenue, Burnaby, BC V5G 3H2, Canada

ID 111 Assessing the Alignment of AI Competencies with Construction Management and Quantity Surveying Curricula: A South African Case Study

Sanele Smith, Thalete Nkosi, Neliswa Mncube and Hlengiwe Ngubane, Department of Construction Management and Quantity Surveying Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

ID 137 From Sustainability Goals to Curriculum Integration: Applying the Engineering for One Planet (EOP) Framework in Engineering Education

Edna Ovulley and Dr. Hayder Zghair, Departments of Computer Science, and Engineering and Southern Arkansas University, Magnolia, AR, USA

ID 107 Metacognition as the Counterweight to AI Overreliance in Engineering Education and Practice

Jim R. Jones, PhD, CSM, Director, Engineering and Technology Management Program, Washington State University, Voiland College of Engineering and Architecture, Pullman, Washington, USA

ID 46 Visibility and Recognition Gaps of Women in Engineering

María Valentina Ruiz Morales, Student Industrial Engineering, Universidad Militar Nueva Granada, Bogotá, Colombia
 Daniela Janeth Flórez Rodríguez, Student Industrial Engineering, Universidad Militar Nueva Granada, Bogotá, Colombia

October 13, 2026 (Tuesday) - Session: 16:30 – 18:00**16:30 – 18:00, Tuesday****Onsite Breakout Room 3****Emotional Intelligence and Leadership Workshop**

Dr. Tony Prensa, PhD, MBA, PMP, CB-PMO, CCP, ITIL, 6σ
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA

Tour**The Center for Research Advancement in Smart Manufacturing (CREST-RASM)****Tuesday, October 13, 2026 | 7:00 – 8:00 pm****Building 17, First floor, Room # 1659****Cal Poly Pomona, 3801 West Temple Avenue, Pomona, California 91768**<https://www.cpp.edu/crest/index.shtml>**October 14, 2026 (Wednesday) – Day 2****8:00 - 17:00 Registration****October 14, 2026 (Wednesday) - Session: 8:00 – 9:30****8:00 – 9:30, Wednesday****Onsite Breakout Room 1**

Session Chair:

Advanced Manufacturing Technologies**ID 133 Modeling Rare Events with Fuzzy Logic: a case study of homeowner insurance quote premium acceptance**

Richard Appiah and Henrique Ewbank, Department of Data Analytics & Statistics, College of Information, University of North Texas, Denton, Texas, USA

ID 147 Ontology-Guided Large Language Model Framework for Automated Extraction of Esophagostomy Tube Complications from Veterinary Clinical Notes

Suwetha Jahan Maheswary and Yong Wang, School of Systems Science and Industrial Engineering, Binghamton University, State University of New York, Binghamton, New York 13902, USA

Hala Ghali, Jeseplat Edzie, Palma Douglas, Felicia Westling and Chad West, Schwarzman Animal Medical Center, New York, New York, USA

ID 85 Rolling-Window Deep Learning Models for Predicting Next-Month High-Risk Healthcare Utilization

Samira Salehi Heidari, Majed Al Jamrah and Yong Wang, School of Systems Science and Industrial Engineering, Binghamton University, State University of New York, Binghamton, New York, USA

Maria Kordit, Forward Leading IPA, Rochester, New York, USA

ID 38 Standard allowed minute (SAM) reduction through layout Redesign using quality tools & systematic layout planning: A case study of textile mill

Muhammad Saleh Jumani, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

ID 66 The AI Company as Factory: Effectiveness Measurement as a Practice of Responsible Technology

Michael Osei, Western Michigan University, MI, United States

ID 259 Machine Learning for Operational Decision Support: Predicting Unsafe Air Quality Events in California

Bhavna Sreekumar and Christopher Strouse

M.S. in Business Analytics

College of Business Administration

Loyola Marymount University

Los Angeles, California, USA

Sarkis Shil-Gevorkyan

M.S. in Computer Science

Seaver College of Science and Engineering

Loyola Marymount University

Los Angeles, California, USA

October 14, 2026 (Wednesday) - Session: 8:00 – 9:30**8:00 – 9:30, Wednesday****Onsite Breakout Room 2**

Session Chair:

Supply Chain and Logistics**ID 108 An Analysis of Challenges in Central Valley Trucking Industry**

Sarbrinder P. Singh, M.S. Industrial Technology, Jordan College of Agricultural Science and Technology, CSU, Fresno, USA

Dr. Arun N Nambiar, Professor, Department of Industrial Technology, Jordan College of Agricultural Science and Technology, CSU, Fresno, USA

ID 112 An Automated Inventory Information Retrieval and Distribution Center Reporting System for Manufacturing Logistics: A Case Study

Anish Shenoy, Graduate Research Assistant, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, New York, USA

Joshua Lee, Logistics Analyst, Materials, Planning, & Logistics, The Raymond Corporation, Greene, New York, USA

Don Tripp, Transportation Manager, Materials, Planning, & Logistics, The Raymond Corporation, Greene, New York, USA

Linda Andrus, Director of Logistics and Transportation, The Raymond Corporation, Greene, New York, USA

Yong Wang, Associate Professor and Associate School Director, School of Systems Science and Industrial Engineering, Binghamton University Binghamton, New York, USA

ID 106 Does Utilizing Supply Chain Finance Influence Firm Performance? An Empirical Study Across Four Industries

Ershen Ali, Loyola Marymount University, College of Business, Los Angeles, CA, USA

Sina Zare, Ph.D., Department of Information Systems and Business Analytics, College of Business, Loyola Marymount University, Los Angeles, CA, USA

ID 273 Green Inventory Management from Supplier to Customer: A Simulation-Based Approach with Reverse Logistics

Husam Kaid, Industrial Engineering Department, College of Engineering, Al Yamama University, Khobar 34215, Saudi Arabia

Osama Qurban, Abdullah Khateri, Mohammed Al-attas, Hashim Alhaidari, and Mazen Alrashidi, Industrial Engineering Department, College of Engineering, Taibah University, Medina 41411, Saudi Arabia

8:00 – 9:30, Wednesday**Onsite Breakout Room 3**

Session Chair:

9:30 – 10:00 Networking Break**October 14, 2026 (Wednesday) - Session: 10:00 – 13:00****10:00 – 13:00, Wednesday****Onsite Ballroom (Room 1)****Keynotes**

9:40 – 10:20, October 14 (Wednesday), 2026 – Keynote IV

Dr. Peter J. Burke

Professor, Electrical Engineering and Computer Science

Professor, Biomedical Engineering
The Henry Samueli School of Engineering
University of California, Irvine
Irvine, California, USA

10:20 – 11:00, October 14 (Wednesday), 2026 – Keynote V

Steve Harrington
Senior Advisor and Workforce Development Strategist
Manufacturing Skill Standards Council
Simi Valley, California, USA

Presentation Title: Preparing the 21st-Century Workforce for Supply Chain Automation and Advanced Manufacturing

11:00 – 11:40, October 14 (Wednesday), 2026 – Keynote VI

Richard Walker
Technical Director and Operations
FUTEK Advanced Sensor Technology, Inc.
Orange County, California, United States

Presentation Title: Advanced Sensing Technologies for Smart Manufacturing: Connecting Measurement, Data and Intelligent Operations

11:40 – 12:20, October 14 (Wednesday), 2026 – Keynote VII

Dr. Maj Dean Mirmirani
Interim Dean of Engineering, Ohio Univeristy
Past Interim Dean, College of Engineering, Lawrence Technological University, Southfield, Michigan
Dean Emeritus of Engineering, Embry-Riddle Aeronautical University, Daytona Beach Campus. Florida

12:20 – 13:00, October 14 (Wednesday), 2026 – Keynote VIII

Dr. Ali Abbas
Professor of Industrial and Systems Engineering
University of Southern California
Los Angeles, California, USA

Presentation Title: Integrating AI, Ethics, and an Appropriate Decision System into Large-Scale Decisions

13:00 – 14:30 – Buffet Lunch – Ballroom (Room 1)

October 14, 2026 (Wednesday) - Session: 14:30 – 16:00

14:30 – 16:00, Wednesday

Onsite Ballroom (Room 1)

Plenary Speakers

2:30 – 2:50 pm – Day 2 (October 14, 2026)

Dr. Ankit Gupta, Ph.D.
Assistant Professor, Engineering and Technology
California State University, Los Angeles, USA

2:50 – 3:10 pm – Day 2 (October 14, 2026)

Dr. Alireza Kavianpour
Ph.D., Electrical Engineering, USC, CA, USA
Senior Professor, DeVry University, CA, USA
Adjunct Professor, UCI, CA, USA

3:10 – 3:30 pm – Day 2 (October 14, 2026)

3:30 – 5:50 pm – Day 2 (October 14, 2026)

October 14, 2026 (Wednesday) - Session: 14:30 – 16:00

14:30 – 16:00, Wednesday

Onsite Breakout Room 2

Session Chair:

Engineering Management and Project Management

ID 27 A Comparative Analysis of Psychological Barriers in Multigenerational Workplaces: Project Management Interventions in Japan, Thailand, and Vietnam

Taichi Ito, Department of Project Management, Faculty of Social Systems Science, Chiba Institute of Technology, Chiba, Japan
Tsutomu Konosu, Professor, Department of Digital Transformation, Faculty of Innovative Management Science, Chiba Institute of Technology, Chiba, Japan

ID 208 AI Governance Maturity and Firm Performance: The Mediating Roles of Organizational Ambidexterity and Business Model Innovation and the Moderating Role of Digital Orientation

Muhammad Shoaib Iqbal, Ph.D. Candidate, Department of Civil Engineering, Construction and Management Division, National Taiwan University Taipei, Taiwan
Shih Ping Ho, Professor, Department of Civil Engineering, Construction and Management Division, National Taiwan University, Taipei, Taiwan

ID 104 Application of a Maturity Model in the Reverse Logistics of Clothing and Individual Equipment in the Military Forces and the National Police of Colombia: Initial Approaches

Paula Andrea Morales Guaitero and Paloma Martínez-Sánchez, Universidad Militar Nueva Granada, Bogotá, Colombia

ID 30 From Framework to Executable Artifact: Design and Computational Validation of the MSRMF Release Governance Tool

Livia Silveira Bezerra de Menezes, Efficient Plant Inc. (EPI), Montréal, Quebec, Canada
Rogério Teixeira Mâsih, Department of Production Engineering, Center of Technology, Universidade Federal do Ceará (UFC), Fortaleza, Ceará, Brazil
Mariana Lira Diniz, Efficient Plant Inc. (EPI), Montréal, Quebec, Canada

ID 28 Team Design for Agile Adoption: An International Comparative Study of Cultural Values, Risk Perception, and Digital Capability Formation

Shudai Miyanaga, Department of Project Management, Faculty of Social Systems Science, Chiba Institute of Technology, Chiba, Japan
Tsutomu Konosu, Professor, Department of Digital Transformation, Faculty of Innovative Management Science, Chiba Institute of Technology Chiba, Japan

ID 97 Toward Cross-Domain Release Governance for Safety-Critical Automation: Design Principles Derived from the Multi-Site Release Management Framework

Livia Silveira Bezerra de Menezes, Efficient Plant Inc. (EPI), Laval, Quebec, Canada
Rogério Teixeira Mâsih, Department of Production Engineering, Center of Technology, Universidade Federal do Ceará (UFC), Fortaleza, Ceará, Brazil
Mariana Lira Diniz, Efficient Plant Inc. (EPI), Montréal, Quebec, Canada

ID 100 The Southern Aluminum and Southern Arkansas University Model of Industry-Academic Collaboration as a Catalyst for Regional Economic Development

Hayder Zghair, Associate Professor, College of Science & Engineering, Southern Arkansas University, Magnolia, Arkansas, USA
Jon Quillin and Andrew Moffett, Southern Aluminum, Magnolia, Arkansas, USA

October 14, 2026 (Wednesday) - Session: 14:30 – 16:00

14:30 – 16:00, Wednesday

Onsite Breakout Room 3

Student Career Planning Workshop and Panel

Chair

Dr. Ali Abbas
Professor of Industrial and Systems Engineering
University of Southern California
Los Angeles, California, USA

Members

Dr. Leonard (Lenny) Perry
Associate Professor, Industrial and Systems Engineering
Director of Industry Partner Program
University of San Diego
San Diego, California, USA

Dr. Sina Zare
Assistant Professor, Information Systems and Business Analytics
College of Business Administration
Loyola Marymount University
Los Angeles County, California

16:00 – 16:30: Networking Break**October 14, 2026 (Wednesday) - Session: 16:30 – 18:00**

16:30 – 18:00, Wednesday

Onsite Ballroom (Room 1)

Panel III**Women in Industry and Academia Panel sponsored by Ford Motor Company**

Panel Chair

Dr. Yasaman Ghasemi
Department of Information Systems and Business Analytics
Loyola Marymount University
Los Angeles, California

Isela Scaglione
Vice President of Portfolio Management
Mattel Inc.

Akanksha Jouret
Sr. Manager of Portfolio Planning
Mattel Inc.

Priyanka Malla, PMP
Information Technology Project Manager, FBM
IEEE Senior Member | IEEE Orange County Section Secretary Officer

October 14, 2026 (Wednesday) - Session: 16:30 – 18:00

16:30 – 18:00, Wednesday

Onsite Breakout Room 2

Session Chair:

AI in Manufacturing**ID 2 A ‘Learning to Learn’ framework for automated scheduling with reinforcement learning**

Bijan Jamshid-Nejad and Ripon Chakraborty, University of New South Wales Canberra, New South Wales, Australia

ID 113 Case Study: A Progressive, Low-Capital Digital Transformation at a Small-to-Medium-Scale Enterprise

Angadsingh Kanvar, PhD Student, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, New York, USA
Patricia Wilcox and Casey Vitti, Co-Founders, Awestruck Ciders, Sydney, NY, USA
Yong Wang, Associate Professor and Associate School Director, School of Systems Science and Industrial Engineering, Binghamton University

Binghamton, New York, USA

ID 94 Deterministic Decision Support for Medical Device Design Verification: An Engineering Intelligence Case Study with Multi-Case Validation

Amir Sajjadi, Utmost Connect (AYS Consultants LLC), Irvine, CA, USA

ID 10 Online Web-based Sewing Defects Detection by Deep Learning

Saiful Islam, Lecturer, Department of Textile Engineering, Atish Dipankar University of Science and Technology, Sector-15, Uttara, Dhaka-1230, Bangladesh

ID 83 The Industry 4.0 Readiness–Performance Gap in the Age of Artificial Intelligence: Why Digital and AI Adoption Do Not Guarantee Sustainable Business Outcomes

Mr. Muhammad Zulfiqar, PhD Scholar - Department Industrial Engineering and Management, AD – Academics National University of Modern Languages (NUML) Hyderabad, India

Mehwish Bhatti, Lecturer - Department of Management Science, National University of Modern Languages (NUML) Hyderabad, India

October 14, 2026 (Wednesday) - Session: 16:30 – 18:00

16:30 – 18:00, Wednesday

Onsite Breakout Room 3

Entrepreneurship and Innovation Workshop

Professor Donald M. Reimer

President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA
Chief Operating Officer
IEOM Society International

**19:00 – 22:00 (Wednesday, October 14)
Awards Ceremony – Gala Dinner – Ballroom 1**

October 15, 2026 (Thursday) – Day 3

8:00 - 17:00 Registration

October 14, 2026 (Thursday) - Session: 8:00 – 9:30

8:00 – 9:30, Thursday

Onsite Breakout Room 1

Session Chair:

Automation, Robotics and Autonomous Systems

ID 101 The Southern Aluminum and Southern Arkansas University Model of Industry-Academic Collaboration as a Catalyst for Regional Economic Development

Hayder Zghair, Associate Professor, College of Science & Engineering, Southern Arkansas University, Magnolia, Arkansas, USA
Anas Saleem, Cody Stewart and Jamal Anderson, Southern Arkansas University, Magnolia, Arkansas, USA

ID 183 Designing pMSRMF: A Pharmaceutical Extension of the Multi-Site Release Management Framework for Risk-Based Engineering Change Governance

Livia Silveira Bezerra de Menezes, Efficient Plant Inc. (EPI), Montréal, Quebec, Canada
Rogério Teixeira Mâsih, Department of Production Engineering, Center of Technology, Universidade Federal do Ceará (UFC), Fortaleza, Ceará, Brazil

ID 110 SHEGS Autonomous HVDC architecture-closeloop witmind of its own

Fidel Gutierrez Ochoa, Former, Phoenix probe instruments future-EMVIDIAS, CA, United States

ID 190 Prioritizing Machine-Readable Lane Markings and Road-Weather Sensing for Connected and Automated Vehicles on Michigan I-94

Soujanya Pillala and Kasim Korkmaz, Construction Management, Game Above College of Engineering and Technology, Eastern Michigan University, Ypsilanti, Michigan, USA

October 14, 2026 (Thursday) - Session: 8:00 – 9:30

8:00 – 9:30, Thursday

Onsite Breakout Room 2

Session Chair:

Human Factors, Ergonomics and Healthcare Systems

ID 21 An Eye-Tracking Study of the Efficiency of Data Visualization Types

Seung Oh, Assistant Professor of Industrial Engineering, Department of Engineering, South Carolina State University, Orangeburg, South Carolina, USA

Isaiah Abraham Thompson, Undergraduate student, Department of Engineering, South Carolina State University, Orangeburg, South Carolina, USA

Younho Seong, Professor, Department of Industrial and Systems Engineering, North Carolina A&T State University, Greensboro, North Carolina, USA

Sun Yi, Boeing Endowed Professor, Department of Mechanical Engineering, North Carolina A&T State University, Greensboro, North Carolina, USA

Sangseung Lee, Senior Researcher, Eulji Research Institute, Korea Advanced Institute of Science and Technology, Daejeon, South Korea

Dongjin Kim, Professor, Department of Defense Cyber Science, Korea Army Academy at Yeongcheon, Yeongcheon, South Korea

Hye Young Kim, Professor, Department of Art + Visual Studies, Winston-Salem State University, Winston-Salem, North Carolina, USA

ID 109 Data-Driven Decision Support for Early Sepsis Prediction in Intensive Care: A Comparative Evaluation of Gradient Boosting and Deep Sequence Models

Diana Opiyo, Graduate Student, Department of Information Sciences and Technologies, College of Computing, Grand Valley State University Allendale, MI, 49401, USA

Edna Ovulley and Dr. Hayder Zghair, Departments of Computer Science and, Engineering, College of Science & Engineering, Southern Arkansas University United States

ID 272 Prediction of Postoperative Stroke in Elderly Patients with CatBoost

Harshitha Bingi, Abhijeet Nijjar and Himaja Kavuri

Daniel J. Epstein Department of Industrial and Systems Engineering

USC Viterbi School of Engineering, University of Southern California

Los Angeles, California, USA

October 14, 2026 (Thursday) - Session: 8:00 – 9:30

8:00 – 9:30, Thursday

Onsite Breakout Room 3

Session Chair:

Engineering Education and Experiential Learning

ID 257 Experiential Student Learning from the 2nd IEOM Windsor World Congress from students of NSF travel support grant

Ahad Ali and Don Reimer, LTU, USA

9:30 – 10:00 Networking Break

October 14, 2026 (Thursday) - Session: 10:00 – 13:00

10:00 – 13:00, Thursday

Onsite Ballroom (Room 1)

Keynotes

10:00 – 10:40, October 15 (Thursday), 2026 – Keynote IX

Dr. Amir Sajjadi, Ph.D., PMP

Founder & Lead Consultant

Utmost Connect

Irvine, California, USA

Presentation Title: Deterministic Decision Support for Medical Device Design Verification

10:40 – 11:20, October 15 (Thursday), 2026 – Keynote X

Dr. Luis Rocha Lona
Professor in Operations Management
IPN Business School
National Polytechnic Institute of Mexico (IPN)
México City, Mexico

11:20 – 12:00, October 15 (Thursday), 2026 – Keynote XI

Thomas Bowles, MSEE, CQE, CQA
Director of Quality Assurance
FUTEK Advanced Sensor Technology, Inc.
Orange County, California, United States

12:00 – 12:40, October 15 (Thursday), 2026 – Keynote XII

13:00 – 14:30 – Buffet Lunch – Ballroom (Room 1)

October 14, 2026 (Thursday) - Session: 14:30 – 16:00

14:30 – 16:00, Thursday

Onsite Ballroom (Room 1)

Panel IV AI Powered Engineering Panel

Panel Chair

Dr. Hayder Zghair
Associate Professor of Industrial Engineering
Director of STEM center Center
Southern Arkansas University (SAU)

Panel Speakers

Mayra Bornacelly
AI researcher, instructor, and applied analytics professional
University of Central Florida
Orlando, FL, USA

Dr. Thomas Jones
Assistant Professor of Industrial Engineering
Florida Polytechnic University

Dr. Galia Nedeltcheva
Assistant Professor
Bulgarian Academy of Sciences
Institute of Information and Communication Technologies
Sofia, Bulgaria

October 14, 2026 (Thursday) - Session: 14:30 – 16:00

14:30 – 16:00, Thursday

Onsite Breakout Room 2

Session Chair:

Simulation, Optimization and Productivity Improvement

ID 67 A Lean-Digital Twin Decision Support Framework for Demand-Capacity Balancing and Patient Flow Optimization in Public Sector Hospitals

Jazib Ahmed Zai, Ph.D. Scholar at Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Pakistan, business entrepreneur working in health sectors as well as covering all institutes where general order supplies are being conducted, Independent Researcher and Digital Transformation Professional, National University of Modern Languages (NUML), Pakistan
 Shakeel Ahmed Shaikh, Aqib Muhammad and Zulfiqar Muhammad, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Pakistan
 Junaid Ahmed Zai, Hyderabad Electric Supply Company (HESCO), Pakistan

ID 95 Preventive Maintenance Information System: Case Study of a Ferry Operator

Amonsiri Vilasdaechanont, Assistant Professor, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand
 Nopakrit Wisitkamthorn, Napatsorn Chavalitchonvit and Nammont Tanphaibul, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand

October 14, 2026 (Thursday) - Session: 14:30 – 16:00**14:30 – 16:00, Thursday****Onsite Breakout Room 3****Workshop****16.00 – 16.30: Networking Break****October 14, 2026 (Thursday) - Session: 16:30 – 18:00****16:30 – 18:00, Thursday****Onsite Ballroom (Room 1)**

Session Chair:

Quality, Reliability and Maintenance**ID 138 Mapping Multi-Site Engineering-Release Governance to Federal Operational-Technology Guidance: A Correspondence Analysis of MSRMF Against NIST SP 800-82**

Livia Silveira Bezerra de Menezes, Efficient Plant Inc. (EPI), Montréal, Quebec, Canada
 Rogério Teixeira Mâsih, Department of Production Engineering, Center of Technology, Universidade Federal do Ceará (UFC), Fortaleza, Ceará, Brazil

October 14, 2026 (Thursday) - Session: 16:30 – 18:00**16:30 – 18:00, Thursday****Onsite Breakout Room 2**

Session Chair:

Sustainability, Green Systems and Energy**ID 184 Comparison of the energy efficiency of Gulf Cooperation Council countries with some developed countries using data envelopment analysis**

Ali Alarjani, Prince Sattam Bin Abdulaziz University, Riyadh Saudi Arabia

ID 271 Governing AI Enabled Emissions Prediction in Port Transport Planning

Oscar Iglesias and Carlos D. Paternina-Arboleda
 San Diego State University
 San Diego, California, USA

October 14, 2026 (Thursday) - Session: 16:30 – 18:00**16:30 – 18:00, Thursday****Onsite Breakout Room 3****Six Sigma Green Belt Workshop**

IEOM Six Sigma Yellow Belt (IEOM-SSYB)
 IEOM Six Sigma Green Belt (IEOM-SSGB)

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
 Executive Director, IEOM Society International

Virtual - Day 1 (Tuesday, October 13)

October 13, 2026 (Tuesday) - Session: 8:00 – 10:00

8:00 – 10:00, Tuesday

Virtual Zoom Room

Session Chair:

Zoom Host: Siyam Hasan, IEOM Global Intern, Bangladesh

Supply Chain and Logistics

ID 63 Cost–Exposure Trade-Offs in Sea–Air Replenishment: An Auditable Screening Model for Cross-Border E-Commerce
 Peixuan He, School of Accounting, Chongqing Technology and Business University, Chongqing, China

ID 219 Extending Concurrent Engineering Through Installation: A Multi-Stakeholder Framework for Field-Optimized Packaging
 Chaitanya Arekar, Component Quality Engineer, Meta Platforms, 6530 Paseo Padre Parkway, Fremont, CA 94555, USA
 Daizo Nishioka, Senior Director, Sumitomo Electric Lightwave, 201 South Rogers Lane, Suite 100 Raleigh, NC, United States

ID 210 From Isolated Digitalization to Intelligent Logistics Architecture: A Systematic Review of Emerging Technologies in Smart Warehouses

M.I.I. Mario Alberto Durán-Félix, Phd Student in Technology, Department of Industrial Engineering and Manufacturing, Universidad Autonoma de Ciudad Juárez, Ciudad Juárez, México
 Luis Asunción Pérez-Domínguez, Dr. Roberto Romero-López and Dr. Javier Molina-Salazar, Department of Industrial Engineering and Manufacturing, Universidad Autonoma de Ciudad Juárez, Ciudad Juárez, México
 Dynhora-Danheyda Ramírez-Ochoa, Universidad Tecnológica de Chihuahua, Chihuahua, México

ID 86 From Weak Signals to Supply Chain Reliability Risk: A Feedback-Driven Risk Accumulation Framework for Late-Delivery Prediction, Early Warning, and Risk Prioritization

Yan Lyu, Independent Researcher, Boston, Massachusetts, USA
 Yihua Xu, Independent Researcher, San Jose, California, USA
 Jiani He, Independent Researcher, Seattle, Washington, USA
 Jize Li, Independent Researcher, Boston, Massachusetts, USA
 Rubing Qiang, Independent Researcher, Austin, Texas, USA
 Yidan Hu, Independent Researcher, New York, New York, USA

ID 15 Improving Order Fulfillment in International FMCG Supply Chains through Machine Learning and MPS Integration

Luciana Vidalon Urtecho, Alfredo Alonso Alva Conde, Marcos Fernando Ruiz-Ruiz and Juan Carlos Quiroz-Flores, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

October 13, 2026 (Tuesday) - Session: 10:00 – 12:00

10:00 – 12:00, Tuesday

Virtual Zoom Room

Session Chair:

Zoom Host: Aqib Islam, IEOM Bangladesh

Sustainability, Green Systems and Energy

ID 223 AI-Guided Manual Disassembly of End-of-Life EV Battery Packs: A Standardized, Safe, and Affordable Approach for Resource-Constrained Regions and Circular Economy

Abdul Aziz Ibrahim and Walid Abdul-Kader, Industrial Engineering Program, MAME Department, University of Windsor, ON, N9B 3P4, Canada

ID 89 Design and Development of a Borehole Water Pump for Rural Areas

Brainy Motolla, M. E. Matlakala and D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 90 Investigating the Water Reticulation problem in the Nkangala District Municipality of Mpumalanga Province

D. R. Hills, T.M. Phumo, M.R. Mafafo, M. E. Matlakala and D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 92 Modelling Water Pumping System in the Govan Mbeki Local Municipality

P. Sekwakwa, A. Cholo, T. Ramaila, M. E. Matlakala and D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

October 13, 2026 (Tuesday) - Session: 12:00 – 14:00**12:00 – 14:00, Tuesday****Virtual Zoom Room**

Session Chair: Farnaz Ghazi Nezami, Kettering University, Flint, Michigan, 48504, USA

Zoom Host: Dr. Nazrul, IEOM Canada

Advanced Manufacturing Technologies**ID 186 Digital Phenotyping of Navigation Behavior in a Corporate Portal: An Unsupervised Machine Learning Approach**

Alan Oliveira, Graduate Student in Data Science and Big Data, Pontifical Catholic University of Minas Gerais, Manaus – Amazonas, Brazil

Ayumi Aoki Santana, M.Sc. Candidate in Computer Science, Federal University of Amazonas, Manaus – Amazonas, Brazil

Erika Nozawa, M.Sc. in Software Engineering, Federal University of Amazonas, Manaus – Amazonas, Brazil

Sandro Breval Santiago, D.Sc. in Production Engineering, Federal University of Amazonas, Manaus – Amazonas, Brazil

ID 141 Long Short-Term Memory-Based Predictive Analytics and Forecasting Technique for Stock Price and Market Analysis

Tarequl Islam and Md Imran Hasan Tusar, School of Engineering, Bowling Green State University, Bowling Green, OH 43403, USA

ID 206 Mathematical Impact Method; A Framework for Transforming Problems into Models, Decisions, and Measurable Impact

Majid Ghorbani, Department of Mathematics, Azad University Central Tehran Branch, Tehran, Iran

ID 217 Modelling the Correlations Among Eavesdropping Attack Factors in Digital Twin-Enabled Industrial Systems: An ISM-MICMAC Approach

S M Julfiker Zahid, Department of Industrial Engineering and Management, Khulna University of Engineering and Technology, Khulna-9203, Bangladesh

Samia Tasnim, Department of Geography and Environment, Islamic University, Kushtia-7003, Bangladesh

ID 9 Multi-Objective Optimization Framework for Enhancing Sustainability and Resilience of Multi-Echelon Supply Chains Under Demand and Supply Uncertainty

Babul Sarker, College of Graduate and Professional Studies, Trine University, 1 University Avenue, Angola, IN-46703, USA

Tonmoy Turjya Barman, School of Computing, Montclair State University, 1 Normal Ave. Montclair, NJ, USA

Apurba Sarker, University of the Cumberlands, 6178 College Station Drive Williamsburg, KY 40769, USA

Nadira Kulsum Papri, University of the Cumberlands, 6178 College Station Drive Williamsburg, KY 40769, USA

ID 300 3D Print Farms in a Decentralized Manufacturing System

Farnaz Ghazi Nezami

Associate Professor, Department of Industrial & Manufacturing Engineering

Kettering University

Flint, Michigan, 48504, USA

Eliana Reid, Jacob Goodrich, Bennet Miller

Department of Industrial & Manufacturing Engineering

Kettering University

Flint, Michigan, 48504, USA

October 13, 2026 (Tuesday) - Session: 14:00 – 16:00**14:00 – 16:00, Tuesday****Virtual Zoom Room**

Session Chair:

Zoom Host: Dr. Nazrul, IEOM Canada

Quality, Reliability and Maintenance**ID 227 A Study of Quality Mindset Perception Among Auto Parts Supplier Using the Hypergeometric Graphics from Iramuteq Software**

Anderson Belmiro Salvador, Student at University of São Paulo State, Guaratinguetá, São Paulo, Brazil

Prof. Dr. Antonio Fernando Crepaldi, Teacher at University of São Paulo State, Baurão, São Paulo, Brazil

ID 242 Artificial Intelligence in Manufacturing Reliability and Predictive Maintenance: Evidence, Failure Modes, and Emerging Practice

Yaman Pandey, Ph.D. Student, Department of Industrial and Systems Engineering, Mississippi State University, Starkville, MS, USA

Aakriti Kuikel, Food Scientist, Mankato, MN, USA

Pawan Bhandari, Ph.D., Professor, Department of Automotive and Manufacturing Engineering, Minnesota State University, Mankato, MN, USA

ID 241 Changeover, Not Wear: Sensorless Prediction of Severe Failures from Existing Production Records in Injection Molding

Boris Christian Herbas Torrico, Research Professor, Tecnológico de Monterrey, Guadalajara, Mexico

René Carlos Cabero Villazón, PhD Student, Tecnológico de Monterrey, Guadalajara, Mexico

Mariana Sánchez Larrea, Research Assistant, Bolivian Industrial Research and Development Group, Cochabamba, Bolivia

ID 213 Integration of MultiCriteria Decision-Making Methods and Fuzzy Sets for Modeling Subjective Information: Methodological Trends and Applications

Sara Nohemí Almeraz-Durán, Luis Pérez-Domínguez, Lázaro Rico-Pérez and Luis Gonzalo Guillén-Anaya, Department of Industrial and Manufacturing Engineering, Universidad Autónoma de Ciudad Juárez, Ave. Del Charro 450 Norte, 32315 Ciudad Juárez, Chih., México

ID 216 Joint Optimization of Maintenance Strategies and Spare Parts Inventory

Ali Safar, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco

Oumaima Bounou, IEST team, Artificial Intelligence, Data Technologies, and Modeling (AIDTM) laboratory, ENSAM – UMI, Meknes, Morocco

Latifa Ezzine and Haj El Moussami, 1Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco

October 13, 2026 (Tuesday) - Session: 16:00 – 18:00**16:00 – 18:00, Tuesday****Virtual Zoom Room**

Session Chair: Dr. Mizanur Rahman, IEOM Australia

High School STEM Competition**ID 139 Accessible Mountain Biking: A Hybrid Multi-Criteria Decision Analysis Framework**

Harrison Lindabury, BASIS Independent Brooklyn, Brooklyn, New York, USA

ID 33 BackOnTrack: An Accessible AI-Driven Solution for Posture Awareness and Improvement

Yicheng Amber Shi, Willow Wood Junior High School, TX, United States

Dylan Liu, Design 39 Campus, TX, United States

Harry Zhang, Rice Middle School, TX, United States

ID 244 Correlated Uncertainty in Pedestrian Heat Routing: A Case Study in Washington, DC

Kameron Lee, Thomas Jefferson High School for Science and Technology VA, United States

ID 149 Design and Development of a Low-Cost Assistive Drumming Device for Amputee Musicians

Jeshan Joshua Sagaidev Shelesh, Orchard Park Secondary School, Stoney Creek, Ontario, Canada

ID 13 Experimental Evaluation and Reconstructed Reduced-Order Optimization of an Energy-Free Resonant Channel Breakwater

Gihwan Kim, Seunggi Choi and Sowon Kim, Busan Science High School, Busan, Republic of Korea

ID 221 Eigenvalue-Decomposition Denoising as an Alternative to Predict-then-Optimize

Henry Aldridge-Krawciw, Student, Regis High School, New York, NY 10028, USA

Irene Aldridge, Visiting Lecturer, Cornell Tech, New York, NY 10044, USA

ID 209 Evaluating the role of circadian clock genes in time-dependent behavioral and sleep responses to traumatic brain injury

Reya Satam and Olivia Heintz, Department of Neurobiology, UMass Chan Medical School, MA, United States

ID 215 From Barriers to Bridges: Scholar Boost-A Tech-Driven Approach to Fund Education

Makshoof Kamal Jilani, 10th Grade, UTech Educational System, Karachi, PakistanDr. Muhammad S. Ahmed, GameAbove College of Engineering & Technology, Eastern Michigan University, Ypsilanti, MI 48197, USA

ID 225 Lumisafe: Privacy-Preserving Fall Detection Using Time-of-Flight Sensing and On-Device Machine Learning

Junxin Yu, Student Researcher, Portola High School, Irvine, California, USA

ID 37 Ocean Voyager: An Affordable Autonomous Surface Vehicle for Early Marine Debris Monitoring

Advaith Rajagopalan, BASIS Independent Silicon Valley, San Jose, California, USA

ID 212 PlanSmarter: An AI Study Planner Powered by Performance Scores

Dylan Liu, Design 39 Campus, San Diego, CA 92127, USA

ID 26 Reference-Based Human Pose Comparison for AI-Driven Movement Training

Yicheng Amber Shi, Willow Wood Junior High School, Tomball, TX 77377, USA

Harry Zhang, Rice Middle School, Plano, TX 75093, USA

Dylan Liu, Design 39 Campus, San Diego, CA 92127, USA

Virtual - Day 2 (Wednesday, October 14)**October 14, 2026 (Wednesday) - Session: 8:00 – 10:00****8:00 – 10:00, Wednesday****Virtual Zoom Room**

Session Chair:

Zoom Host: Siyam Hasan, IEM, KUET, Khulna, Bangladesh

Supply Chain and Logistics

ID 99 Improving Service Levels at a Hardware Company by Implementing the 5S, SLP, and Demand Planning Tools

Renzo Sánchez, Gonzalo Arroyo and Rafael Mauricio Villanueva, Facultad de Ingeniería Industrial, Universidad de Lima, Lima, Peru

ID 191 Single Period Model for Middle-Mile and Last-Mile Distribution

Bivek Sapkota and Mojahid Saeed Osman, The Center for Computational Modeling, Simulation, and Analytics, Department of Industrial and Manufacturing Engineering, North Dakota State University, Fargo, ND 58105, USA

ID 245 When a Nine-Day Blockade Costs No More Than a Holiday: Disruption Loss in a Nanostore Replenishment Network

Boris Christian Herbas Torrico, Research Professor, Tecnológico de Monterrey, Guadalajara, Mexico

René Carlos Cabero Villazón, PhD Student, Tecnológico de Monterrey, Guadalajara, Mexico

Jhonny Ivan Rocha Collazos, Research Assistant, Bolivian Industrial Research and Development Group, Cochabamba, Bolivia

ID 64 When Does an Added Planning Capability Create Operational Value? An Observable Evidence Standard

Yihua Xu, Independent Researcher, San Jose, California, USA

Yan Lyu and Jize Li, Independent Researchers, Boston, Massachusetts, USA

Jiani He, Independent Researcher, Seattle, Washington, USA

You Lin and Yidan Hu, Independent Researchers, New York, New York, USA

Rubing Qiang, Independent Researcher, Austin, Texas, USA

ID 246 When the Detour Fails Too: Measuring Route Redundancy under Road Blockades in Bolivia

Boris Christian Herbas Torrico, Research Professor, Tecnológico de Monterrey, Guadalajara, Mexico

Jarin Canaza Fernandez, Oscar Lujan Sainz and Daniela Campos Ayala, Research Assistant, Bolivian Industrial Research and Development Group Cochabamba, Bolivia

Rene Carlos Cabero-Villazón, Doctoral Student, Tecnológico de Monterrey, Guadalajara, Mexico

ID 262 Applying Retail Supply Chain Practices to Aggregate Procurement in Bulgarian Road Construction: An Optimisation Case Study

Mihaela Vladimirova, Faculty of Economics and Business Administration, Sofia University "St. Kliment Ohridski", Sofia, Bulgaria

Galia Nedeltcheva, Bulgarian Academy of Sciences, Institute of Information and Communication Technologies, Sofia, Bulgaria

October 14, 2026 (Wednesday) - Session: 10:00 – 12:00

10:00 – 12:00, Wednesday

Virtual Zoom Room

Session Chair:

Zoom Host: Aqib Islam, IEOM Bangladesh

Business Management and Operations Management

ID 160 5S Model and Inventory Management System for Improving Warehouse Service Levels in a Commercial Company in the Healthcare Sector

Debora Tamara Belleza-Carmelo, Facultad de Ingeniería, Universidad de Lima, Peru

Frankie Benjamin Marquina-Carmelo, Facultad de Ingeniería, Universidad de Lima, Peru

Elsie Violeta Bonilla-Pastor, Research Professor, Facultad de Ingeniería, Universidad de Lima, Peru

ID 4 A Productivity Optimization Model in Engineering Firm Using Goal Programming

Jehoram Px A. Perez, Golden Gate University, 36 Mission Street, San Francisco, California

ID 84 Anchored by the Feed: How Social Media-Sourced Numerical Cues Bias Financial Value Estimates

Vandhith Ande, Emerald High School, Dublin, California, USA

ID 136 Beyond Visibility: An Operational Intelligence Maturity Framework for Digital Supply Chains

XIN LI, Amazon, CA, United States

ID 189 Enterprise Valuation in Small and Medium Enterprises: A Bibliometric Analysis

Andani Olga Bologo, Lungile Thato Koko, Ashley Emily Raymond Hans, Karabo Portia Mokoena, Lys Gedeon Mankene and Sibulele Sani, Students Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg, Auckland Park, Johannesburg, RSA

Lawrance Seseni, Senior Lecturer, Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg, Auckland Park, Johannesburg, RSA

Case Studies and Best Practices

ID 29 Improving Productivity at a Small Footwear Manufacturing Business Through Work Standardization and DDMRP

Nicole Morelia Barrios-Lizonde, Sofia Stefany Pastor-Bayes, José Antonio Taquí-Gutiérrez and Juan Carlos Quiroz-Flores, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, 15023, Peru

ID 140 Modular Product Architecture for Mitigating Short-Term Component Supply Volatility in Industrial Electronics

Christoph Wunck and Claas-Focke Schmidt, Department of Electrical Engineering and Computer Science, Emden/Leer University of Applied Sciences, Emden, Germany

October 14, 2026 (Wednesday) - Session: 12:00 – 14:00

12:00 – 14:00, Wednesday**Virtual Zoom Room**

Session Chair:

Zoom Host: Dr. Nazrul, IEOM Canada

Advanced Manufacturing Technologies

ID 220 Investigation of Diode Laser Cladding Process Parameters of Nickel-Based Alloy on SS400 Steel Using a Six-Axis Industrial Robot
 Thanyada Thaipitak and Jongkol Srithorn, Department of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 211 A Comparative Benchmarking Study of FDM and MSLA: Dimensional and Geometric Accuracy of High-Speed PETG, TPU-95A, HT100 Resin, and PMMA-based Dental Resin
 Mohamed Saafan, Essam Soliman and Amira Khattab, Teaching Assistant, Professor, Assistant Professor, Production Engineering Department
 Faculty of Engineering, Alexandria University, Alexandria, Egypt

ID 114 A Governance-Aware AI Quality Engineering Framework for CI/CD Pipelines: A Controlled Prototype Evaluation
 Shankar Sampath, Independent Researcher, CA, United States

ID 96 Beyond Stigma: Consumer Vulnerability in Feminine Hygiene Product
 Dipojwal Ghosh, Practice Partner, Data Science, Wipro Technologies, Kolkata, India
 Swagato Chatterjee, Senior Lecturer in Digital Marketing & Analytics, Joint Programme Director of M.Sc. Marketing and Digital Analytics
 Queen's Mary College, University of London, UK

ID 164 Cell-Decomposed OCR and Semantic Anchoring for Generalized Table Extraction for Tabularized Documents
 Francisco A. Fernandez De Castro Bobadilla Roger J. Jiao, Georgia Institute of Technology, USA

ID 260 AI-Enabled Precision Agriculture: A Systematic Analysis of Production Costs among Commercial Farmers in South Africa
 Kese Z, Sakha P, and Mayekiso A, Department of Agricultural Economics, Extension and Agribusiness, University of Fort Hare, Alice, South Africa

ID 261 The use of artificial intelligence in managing climate change and drought risks among commercial farmers in South African agriculture: A Systematic review
 Philasande Sakha, Zisanda Kese and Anele Mayekiso, Department of Agricultural Economics, Extension and Agribusiness, University of Fort Hare, Alice Campus, South Africa

October 14, 2026 (Wednesday) - Session: 14:00 – 16:00**14:00 – 16:00, Wednesday****Virtual Zoom Room**

Session Chair:

Zoom Host: Dr. Nazrul, IEOM Canada

Simulation, Optimization and Productivity Improvement

ID 154 A Systematic and Quantitative Review of the Cyber-Physical Simulation Data Pipeline: Preprocessing, Structuring, and Real-Time Synchronization
 Sana Bhimani, Instructor, Data Science, Southern Arkansas University Tech, East Camden, Arkansas, USA
 Southern Arkansas University, Magnolia, Arkansas, USA
 Hayder Zhgair, Southern Arkansas University, Magnolia, Arkansas, US

ID 145 Beyond the Shortest Route: Decomposing Path-Selection and Sequencing Gains in Urban Fleet Routing
 Jad E. El Rassi, Grand Lycée Franco Libanais, Beirut, Lebanon
 Richard Sadaka, Assistant Professor, Université Saint Joseph de Beirut, Beirut, Lebanon

ID 146 Multi-Constraint Optimization of DNA-Origami Aptamer Arrays for CD133+ Extracellular Vesicle Capture
 Leon Le, The Harker School, San Jose, California, USA
 Summer Research Intern, Children's Hospital Los Angeles, Keck School of Medicine, USC, Los Angeles, California, USA

ID 34 Utility Framework for Decision Analysis: AI vs. Human Generated STR Policies for the LA 2028 Olympics
 Akileshwaran Eswaran, Master's Student, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California
 Los Angeles, CA, United States

October 14, 2026 (Wednesday) - Session: 16:00 – 18:00**16:00 – 18:00, Wednesday****Virtual Zoom Room**

Session Chair: Dr. Mizanur Rahman, IEOM Australia

Doctoral Dissertation Competition sponsored by Airbus

ID 62 Determining Company Performance and Assessing Growth Trajectories in the Context of Comparative Superiority
 Ramazan Topdemir, PhD, Institute of Science, Department of Industrial Engineering, Kocaeli University, 41001 Kocaeli, Türkiye
 Gülşen Akman, Prof.Dr., Engineering Faculty, Department of Industrial Engineering, Kocaeli University, 41001 Kocaeli, Türkiye

Undergraduate Research Competition sponsored by Daikin Applied

ID 87 The Impact of AI on Chess: Chess as a Canary in a Coal Mine (Cindy Qiao, U of T research project paper)
Cindy Qiao, Ontario, Canada

Undergraduate Student Paper Competition sponsored by Siemens**ID 148 Prediction-Informed Yard Planning: A Case Study of a German Container Terminal**

Kelly Gorman, Undergraduate Student, Case School of Engineering & College of Arts and Sciences, Case Western Reserve University, Ohio, USA
Rachel Black, Undergraduate Student, Department of Mathematics & Computer Science, Drury University, Missouri, USA
Hasini Balasuriya, Doctoral Student, Department of Industrial & Systems Engineering, University of Louisville, Kentucky, USA
Kai Brüssau, Lecturer and Researcher, Institute of Information Systems, University of Hamburg Business School, Hamburg, Germany
Robert Stahlbock, Lecturer and Researcher, Institute of Information Systems, University of Hamburg Business School, Hamburg, Germany
FOM University of Applied Sciences, Essen/Hamburg, Germany
Nordakademie University of Applied Sciences, Elmshorn, Germany

ID 289 The Tail Latency Paradox: CPU Affinity and Scheduling under Host CPU Saturation

Tsun Wa Yiu, The Hong Kong Polytechnic University, Hong Kong

Graduate Student Paper Competition sponsored by Eaton Corporation**ID 185 AI-Enabled Quality Intelligence for Traction-Motor Manufacturing: A Framework for Predictive Quality, Explainable AI, and Manufacturing Performance**

Kartik Sahay, PhD Student and M. Affan Badar, Professor, Bailey College of Engineering and Technology, Indiana State University, Terre Haute, Indiana 47809, USA

ID 45 From Smart Factories to Connected Ecosystems: Mapping Two Decades of Industry 4.0 And IoT Research

Muhammad Ahmed and Unais Ali, Eastern Michigan University, United States
Syeda Kashaf Kulsom, Utech Digital Education, Pakistan

ID 163 Operator-Conditioned Learning of Direct-Geometry Manipulations in a Synthetic Trial-and-Error Environment for Model Performance Experimentation

Francisco A. Fernandez De Castro Bobadilla Roger J. Jiao, Georgia Institute of Technology, USA

ID 283 Review of the Reliability Challenges and Life Data Analysis of Air Preheaters in Power Generation Plants

Ditebogo E Mankga
Department of Mechanical Engineering Science
University of Johannesburg, South Africa

Motsi Matlakala
Department of Mechanical Engineering Science
University of Johannesburg, South Africa.

Mahlatse Mphahlele
Mechanical & Mechatronic Engineering Department
Cape Peninsula University of Technology (Bellville Campus)
Cape Town, South Africa

Virtual - Day 3 (Thursday, October 15)**October 15, 2026 (Thursday) - Session: 8:00 – 10:00****8:00 – 10:00, Thursday****Virtual Zoom Room**

Session Chair:

Zoom Host: Siyam Hasan, IEOM Global Intern

Human Factors, Ergonomics and Healthcare Systems**ID 142 Respiratory Health Burden Among Construction Workers**

Tarequl Islam and Md Imran Hasan Tusar, School of Engineering, Bowling Green State University, Bowling Green, OH 43403, USA
Niharika Sriram, Yogapriya Guramkonda and Abhinava Reddy Thummala, 2School of Built Environment, Bowling Green State University, Bowling Green, Ohio 43403, USA

ID 88 Standard Deviation Analysis as a Human-Centred Diagnostic Framework for Organisational Change and Operational Excellence

Panagiotis Alevyzakis, Independent Researcher / Mechanical Equipment Management Professional, Greece

ID 41 The Impact of Extreme Ambient Temperatures on Electric Vehicle Performance in the Kingdom of Saudi Arabia

Lama Bedywi, CEER Motors, Makkah, Saudi Arabia

ID 274 Every Test Scan Was Seen in Training: Scan-Disjoint Re-Evaluation of Prostate Zonal Segmentation

Ryan Sonderman, Jason Johnston and Krista Delahunty
University of Maine at Presque Isle
Presque Isle, Maine, USA

Md Rafiul Hassan and Mohammad Anwar Rahman
Central Connecticut State University
New Britain, Connecticut, USA

October 15, 2026 (Thursday) - Session: 10:00 – 12:00

10:00 – 12:00, Thursday

Virtual Zoom Room

Session Chair:

Zoom Host: Aqib Islam, IEOM Bangladesh Operations Director

Engineering Management and Project Management

ID 82 An Analysis of the Lack of Mentorship and Skills Development Within the Built Environment Professionals in the Public Sector

Tiishetjo Ramatsobane Ntsoane, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, RSA

Morena William Nkomo and Khutso Letsau Maphutha, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, RSA

ID 43 Developing iconic and sustainable buildings: The role and attitude of the architect

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Nigeria

Jan Harm C. Pretorius, Postgraduate School Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 44 Infrastructure deficits: Identifying and Managing the Salient Factors

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Nigeria

Postgraduate School Engineering Management, Faculty of Engineering, University of Johannesburg, South Africa

Jan Harm C. Pretorius, Postgraduate School Engineering Management, Faculty of Engineering, University of Johannesburg, South Africa

ID 222 Productivity Improvement in a Pure Pisco Production Company Applying Lean Manufacturing and Industry 4.0

Giannella Jauregui-Chavez, Leonela Monteza-Reyes, Carlos Urbina-Rivera and Claudia Leon-Chavarri, Carrera de Ingeniería Industrial Universidad de Lima, Lima, Peru

ID 256 Human-Interface Readiness Levels: Integrating Socio-Technical Risk Gates into the Product Development Life Cycle

Kouroush Jenab, Department of Engineering Sciences, Morehead State University, Morehead, Kentucky, USA

Ghazal Barari, School of Engineering, College of Aviation, Embry-Riddle Aeronautical University - Worldwide, USA

Leila Halawi, Department of Aeronautics, College of Aviation, Embry-Riddle Aeronautical University - Worldwide, USA

Sam Khoury, Division of Business, Spring Hill College, Mobile, AL, USA

ID 275 Infrastructure deficits: Identifying and Managing the Salient Factors

Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Nigeria

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

Jan Harm C. Pretorius, Postgraduate School Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

October 15, 2026 (Thursday) - Session: 12:00 – 14:00

12:00 – 14:00, Thursday

Virtual Zoom Room

Session Chair:

Zoom Host: Dr. Nazrul, IEOM Canada

Entrepreneurship and Innovation

ID 105 Mapping the Bibliometric Analysis of Digital Technologies in Business Creation and Sustainability

Amahle Misokuhle Madiba, Neo Koketso Mahlangu, Lesego Mmanare Moitsi, Karabo Ronny Ledwaba and Asanda President Ntuli, Students, Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg, Auckland Park, Johannesburg, RSA

Lawrance Seseni, Senior Lecturer, Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg, Auckland Park, Johannesburg, RSA

ID 61 StudentLink-Texas: A Centralized Digital Platform for Improving High School Students' Access to Internship, Volunteer, and Enrichment Opportunities — A Pilot Study on Awareness and Usability

Sahana Thamizhan, Coppell High School, Coppell, TX, USA

ID 132 The Adoption of Technology in Small and Medium-Sized Enterprises (SMEs): A Bibliometric Analysis

Boitumelo Naledi Mosia, Lumka Macuacua, Andiswa Zuma, Bakholwa Nompumelelo Mthombeni, Tebogo Eddie Mahlatini and Nelisiwe Mavundla

Students, Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg
Auckland Park, Johannesburg, RSA

Lawrence Seseni, Senior Lecturer, Department of Business Management, School of Management, College of Business and Economics, University of Johannesburg, Auckland Park, Johannesburg, RSA

Lean Six Sigma and Operations Excellence

ID 162 From Operational Excellence to Intelligent Excellence: Integrating Six Sigma, Data Analytics, and Artificial Intelligence for the Next Generation of Continuous Improvement

Ahmed A. Aljabr, Technical Services Business Support Department, Saudi Aramco, Dhahran, Saudi Arabia

Mr. Moraya Al-Gahtani, Operational Excellence Department, Saudi Aramco, Dhahran, Saudi Arabia

Pablo Colman Alvarez, Operational Excellence Department, Saudi Aramco, Dhahran, Saudi Arabia

ID 39 Strategic Management of Operational Trade-offs in Optimizing the Reverse Flow of Logistical Exceptions

Jayla Fé Dias, Undergraduate Student, Department of Industrial Engineering, Virtual University of the State of São Paulo (UNIVESP), Santa Barbara D' Oeste, São Paulo, Brazil

ID 299 Productivity Improvement in the Dispatch Process through 5S Methodology and ABC Analysis in the Storage Area of a Mining Products Trading Company

Diego Raphael Valencia Cardenas
Carrera de Ingeniería Industrial
Universidad de Lima

Mattius Scot de la Torre Cuba
Carrera de Ingeniería Industrial
Universidad de Lima

Silvia Ponce Álvarez
Carrera de Ingeniería Industrial
Universidad de Lima

October 15, 2026 (Thursday) - Session: 14:00 – 16:00

14:00 – 16:00, Thursday

Virtual Zoom Room

Session Chair:

Zoom Host: Dr. Nazrul, IEOM Canada

AI in Manufacturing

ID 22 A Simulation-Based MBSE Approach for Governing Learning-Enabled Behavior in PLC Systems

Olufunke Oladimeji, College of Charleston, SC, United States

ID 91 APEX AI: Cost-Aware Human-in-the-Loop Anomaly Detection for Predictive Maintenance

Saud Alshehri and Jory Ahmasani, Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

Adel Alasmari and Rayyan Alghanmi, Department of Computer Science, College of Computer Science, King Khalid University, Abha, Saudi Arabia

Dr. Mohammed M. Alqahtani, Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

ID 224 Bayesian Probabilistic Machine Learning and Behavioral Mean-Field Games for End-of-Life Electric Vehicle Battery Reverse Logistics under Stochastic Degradation and Return Uncertainty

Abdul Aziz Ibrahim and Walid Abdul-Kader, Industrial Engineering Program, MAME Department, University of Windsor, ON, N9B 3P4, Canada

ID 218 Metal Surface Defect Detection using Data-Specific Finetuned YOLO and Machine Learning Methods

Sai Ethihasa Chanda, School of Computing, SASTRA Deemed University, Thanjavur, India

Shreeya Kannan, School of Electrical and Electronics Engineering, SASTRA Deemed University, Thanjavur, India

Brindhya G. R., School of Computing, SASTRA Deemed University, Thanjavur, India

Md.Tohidul Islam and Yong Wang, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, NY 13902, USA

October 15, 2026 (Thursday) - Session: 16:00 – 18:00

16:00 – 18:00, Thursday

Virtual Zoom Room

Session Chair:

Zoom Host: Dr. Mizanur, IEOM Sydney, Australia

Engineering Education and Curriculum Improvement

ID 181 Extent of Industry 5.0 Principles Used by Professors in the United States and the Impact of Each Principle on Pass Rate

Faisal Cheema, Department of Industrial Engineering, College of Engineering and Computer Science, University of Central Florida, Orlando, Florida, USA

Sustainability, Green Systems and Energy

ID 187 Off Grid Community Electrification in Arctic Canada: A Techno Economic and Environmental Comparison

Muhammad Nadeem Akram and Walid Abdul-Kader, Industrial Engineering Program, MAME Department, University of Windsor, Windsor, Ontario, Canada

ID 188 Reliability Assessment of Hydrogen and Second-Life Battery Energy Storage Systems for Canadian Arctic Microgrids

Muhammad Nadeem Akram and Walid Abdul-Kader, Industrial Engineering Program, MAME Department, University of Windsor, Windsor, Ontario, Canada

ID 93 Review of the Global Domestic Water Sources

M. E. Matlakala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 143 Shining a Light on Campus Sustainability: Solar PV Feasibility

Tarequl Islam, Md Imran Hasan Tusar, Jaclyn Kilheffer and Kaitlyn Glass, School of Engineering, Bowling Green State University, Bowling Green, OH 43403, USA

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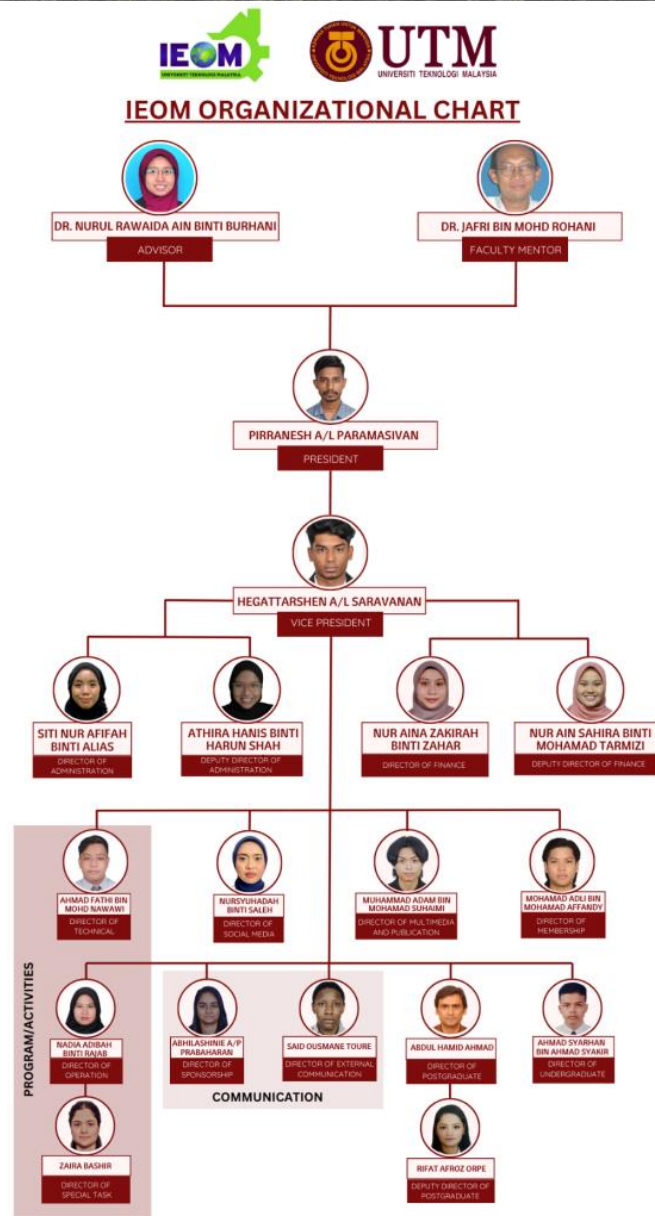
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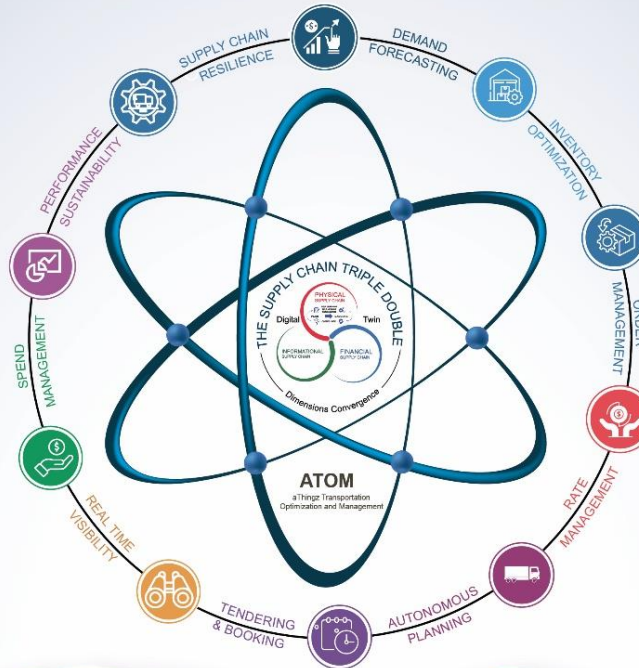
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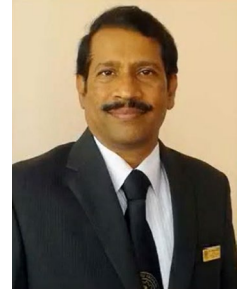
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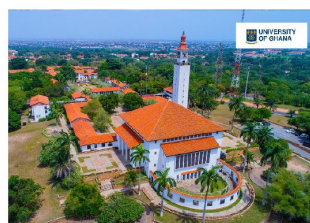
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