



IEOM Society

"Achieving and Sustaining Operational Excellence"

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2025 IEOM North American Awards

**10th North American Conference on Industrial Engineering and Operations
Management, Orlando, Florida, USA, June 17-19, 2025**

Venue: University of Central Florida

<https://ieomsociety.org/awards/>

Distinguished Leadership Award

Dr. Barbara Brown
Director of Exploration Research and Technology Programs
NASA, Kennedy Space Center
Florida, USA

Distinguished Industry Leadership Award

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

Distinguished Academic Leadership Award

Dr. Waldemar Karwowski
Pegasus Professor and Chairman
Department of Industrial Engineering and Management Systems
University of Central Florida
Orlando, FL, USA

Distinguished Industry Achievement Award

Michael Tanis
Senior Manager Industrial Engineer
Blue Origin
Merritt Island, Florida

Distinguished Leadership Award

Dr. Esteban Alejandro Villegas Villarreal
Constitutional Governor
The State of Durango, Mexico

Outstanding Teaching Award

Star Hunters
Star Hunters / IEOM Chapter Durango
Juarez University of the State of Durango and Durango Institute of Technology

Outstanding STEM Award

Mr Mario Bustamante
Commissioner
The City of North Lauderdale
FL. USA

Outstanding Industry Achievement Award

David Stubsten
Senior Manager, Development – Industrial Engineering
The Walt Disney Company
Orlando, Florida. USA

Industry Best Practice Award in Operations and Logistics

Khaled El Dorry
Director Reliability and Maintenance Engineering – North America Fulfilment (NACF)
Amazon
Orlando, Florida, USA

Outstanding Researcher Award

Dr. Christopher Mejia
Research Scientist, MIT Center for Transportation & Logistics Director
MIT SCALE Network for Latin America and the Caribbean
Director, MIT Graduate Certificate in Logistics and SCM (GCLOG) program

Outstanding Researcher Award

Dr. Hector Florez
Professor, Universidad Distrital Francisco José de Caldas
Bogotá, Colombia

Outstanding Educator Award

Dr. Mansooreh Mollaghasemi
Associate Professor and Graduate Director, IEMS
University of Central Florida
Orlando, FL, USA

Distinguished Industry Achievement Award

Lee R. Lambert
A Founder of PMP
CEO and Founding Member of the Lambert Consulting Group, USA

Outstanding Educator Award

Dr. Ivan Garibay
Associate Professor, Industrial Engineering and Management Systems, Director of UCF Artificial Intelligence and Big Data Initiative, Director, Master of Science in Data Analytics, Director, Complex Adaptive Systems Laboratory, Founding Director, UCF I-Corps program, University of Central Florida, USA

Outstanding Researcher Award

Mitchell Rabinowitz
Research Administrator
Icahn School of Medicine
Mount Sinai, New York, USA

Industry Best Practice Award in Simulation & Digital Twin

Dr. Soheil Sabri
Assistant Professor at the School of Modeling, Simulation, and Training (SMST)
Director of the Urban Digital Twin Lab at UCF
University of Central Florida, USA

Industry Solutions Award

Emmanuel Urquieta
Vice Chair of Aerospace Medicine and Associate Professor of Medicine
University of Central Florida. USA

Distinguished Professor Award

Dr. Christopher S. Cerqueira
Professor, Brazilian Aeronautics Institute of Technology (ITA)
São José dos Campos, Brazil

Outstanding Industry Best Practice Award

Marco Pineda
Senior Manager, Improvement – Industrial Engineering
Mitsubishi Power Americas, Inc.

Outstanding Teaching and Learning Award

Mr. Charles Major
Engineering Instructor
University of Central Florida, Orlando, Florida, USA

Global Manufacturing Award

Subash Senthil Mohanvel
Director, ERP, Manufacturing, Quality & Planning, Func. Design & Architecture
West Pharmaceutical Services, Inc.
Downingtown, Pennsylvania, USA

Outstanding Conference Leadership Award

Dr. Marwen Elkamel
Post Doctoral Fellow
Department of Industrial Engineering and Management Systems
University of Central Florida, Orlando, FL, USA

Outstanding Conference Service Award

Mr. Pete Alfieri
College of Engineering and Computer Science
University of Central Florida, USA

Outstanding Leadership Award

Dr. Luis Rabelo
Professor of Industrial Engineering & Management Systems
University of Central Florida

Distinguished Professor Award

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

Outstanding Teaching and Research Award

Dr. Rawa Adla
Associate Professor in Cybersecurity
Florida Polytechnic University, Lakeland, FL, USA

Outstanding Teaching and Research Award

Dr. Parisa Hajibabaei
Assistant Professor, Department of Data Science & Business Analytics
Florida Polytechnic University, Lakeland, Florida, USA

Outstanding Student Award

Tobias Syring
Graduate Student, Engineering & Management
Florida Polytechnic University, Lakeland, FL, USA

Outstanding Teaching Award in AI and Cybersecurity

Denis Ulybyshev, PH.D.
Assistant Professor, Department of Computer Science
Florida Polytechnic University, Lakeland, Florida, USA

Outstanding IEOM Student Chapter Faculty Advisor Award

Shahriar Hossain
Department Head and Associate Professor
Department of Engineering Technology
Northwestern State University
Natchitoches, Louisiana 71497, USA

Outstanding Professor Award

Dr. Cristian Barria
Professor, Director of Master of Engineering and Information Security
Director of the Cybersecurity Research Center
Universidad Mayor Santiago, Chile

Outstanding IEOM Society Service Award

Jesse Davalos
President of the IEOM Society at UCF
University of Central Florida, USA

Outstanding Student Leadership Award

Rashid Said Rashid Al-Asmi
Industrial Engineering Student
University of Central Florida, USA

Outstanding Student Leadership Award

Julia Moras
President of Tau Beta Pi
UCF

Competition Winners

Undergraduate Student Paper Competition Sponsored by SIEMENS - Onsite

First Place

ID 214 Virtual Reality Leadership Simulation for Introverts Literature Review
Samantha Bentley and Abdelwehab Hamam, Florida Polytechnic University, Lakeland FL 33805, USA

Second Place

ID 316 Laplacian Kernel Ridge Regression for Novel Non-Linear Battery State-of-Health Estimation in Electric and Hybrid Vehicles
Riley Orr and Rawa Adla, Department of Electrical and Computer Engineering, Florida Polytechnic University, Lakeland, FL, USA

Third Place

ID 35 Ticket Vending Machine Screen Content Developer Tool Design
Mayan Barik, Tanya Dadlani, Vihaan Khare and Akarsh Pothula, University of Illinois at Urbana-Champaign, IL, United States

Undergraduate Student Paper Competition Sponsored by SIEMENS - Online

First Place

ID 327 Utilizing Multiple-Server, Limited-Customer Queuing Theory to Enhance E-Jeepney Operations in Quezon City, Philippines
Edrian T. Untalan, Grace E. Ceballos, John Angelo A. Santiago, Angelica P. Jaquias, Beverly T. Melchor, Emmanuel Querubin S. Ocampo, Ralph Jason F. Delos Santos, Jose Marie Carillo, Bianca Angeline Catherina Mae S. Gedaria and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

Second Place

ID 71 Microprocessor Based Simulation for the Study of Wind Speeds as a Function of Ventilator Position in a Model Building
Muhammad Ashhub Ali, Software Engineering Department, National University of Science and Technology, Islamabad, Pakistan
Anjum Ali, Former Professor of EE, FAST-NU, Lahore, Pakistan, Former Professor, ECE, KICS, UET, Lahore, Pakistan, Former Associate Professor of EE, Mercer University, MACON, GA, USA, Former Associate Professor of CSE, LUMS, Lahore, Pakistan

Third Place

ID 276 A Systematic Review of the Literature on Operations Management in Servuction Systems: A Case Study in the Hospitality Sector
Vanessa Guerrero Cera, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundacion Universitaria Tecnologico Comfenalco, Cartagena de Indias, Colombia
Yulieth Vergara Salgado, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundacion Universitaria Tecnologico Comfenalco, Cartagena de Indias, Colombia
Hernando Garzón Sáenz, CIPTEC Research Group - Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production
Fundacion Universitaria Tecnologico Comfenalco, Cartagena de Indias, Colombia

Undergraduate Research Competition sponsored by Daikin Applied

First Place

ID 215 Virtual Reality Leadership Simulation for Introverts
Samantha Bentley and Abdelwehab Hamam, Florida Polytechnic University, FL, United States

Second Place

ID 38 Optimizing Machining Parameters for Sustainable Manufacturing: Experimental Analysis of Power Consumption Across Selected Metals

Cassandra Bunnell, Hayder Zghair, and Jeffrey Sumner, Southern Arkansas University, AR, United States

Third Place

ID 197 Proposal of Strategies for the Producer Sector of the Natural Rubber Value Chain in Guatemala to Increase Competitiveness by Leveraging Opportunities in the Expansion of the Current Chain Links

Lucía Pazos, University of Valle of Guatemala, Guatemala

Undergraduate Research Competition sponsored by Daikin Applied - Online

First Place

ID 276 A Systematic Review of the Literature on Operations Management in Servuction Systems: A Case Study in the Hospitality Sector

Vanessa Guerrero Cera, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundacion Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia
Yulieth Vergara Salgado, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundacion Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia
Hernando Garzón Sáenz, CIPTEC Research Group - Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundacion Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia
Andrés Redchuk, ETSII. Department of Computer Sciences. University Rey Juan Carlos. Madrid. Spain
Director of Operational Excellence and Process Improvement Institute

Second Place

ID 328 Utilization of Queuing Systems: Enhancing Service Efficiency in a Coffee Shop Through Multi-Server, Multi-Customer Flow Process

China Allysa R. Dela Cruz, Bianca Angeline Catherina Mae S. Gedaria, Julianne Grace C. Gomez, Hannah Mae R. Bertulfo, Justine Troy C. Espiritu, Shane Maryneth M. Solima, Louiella V. Pagunsan, Jose Marie Carrillo, Edrian T. Untalan and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

Third Place

ID 329 Process Improvement in Restaurants' Commissary Through Pro Model Simulation

Jose Marie Carrillo, Carlos Nathaniel F. Dee, John Lester B. Dela Paz, Frederick Norman Raei A. Dimaano, Ezekiel Richardson S. Dipasupil, Sarah Mae L. Galit, Danica Angel S. Maquilan, Bianca Angeline Catherina Mae S. Gedaria, Edrian T. Untalan and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

Graduate Student Paper Competition Sponsored by EATON - Onsite

First Place

ID 349 Lean 4.0 and Sustainability: An Empirical Study of Performance Outcomes in U.S. Manufacturing

Maryam Amro, Institute of Research for Technology Development (IR4TD), University of Kentucky, Lexington, Kentucky, USA
Catherine Maware, Fujio Cho Department of Engineering Technology, University of Kentucky, Lexington, Kentucky, USA

Second Place

ID 39 Enhancing Cardboard Box Recycling in E-commerce: An Innovative Approach for Amazon

Rushi Ganesh Konathala and Hayder Zghair, Southern Arkansas University, AR, United States

Third Place

ID 40 Investigating the Measurable Factors Influencing Variability in Apple's iPhone Annual Sales Performance

Alekhyia Kambhampati and Hayder Zghair, Southern Arkansas University, AR, United States

Graduate Student Paper Competition Sponsored by EATON - Online

First Place

ID 299 AI-Based Solutions for Optimizing Lane Change Safety in Connected Automated Vehicles

Chase Waelbroeck and Rawa Adla, Department of Electrical and Computer Engineering, Florida Polytechnic University, Lakeland, FL, USA

Second Place

ID 191 Optimal Operation of Vending Machines

Hacı Şahin, M.Sc. in IE, Department of Industrial Engineering, Middle East Technical University, Ankara, Türkiye
Serhan Duran, Professor, Department of Industrial Engineering, Middle East Technical University, Ankara, Türkiye
Ertan Yakıcı, Associate Professor, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye
Zahra Zare, PhD Student, Department of Industrial and Human Factors Engineering, Wright State University, Dayton, OH, USA
Mumtaz Karatas, Associate Professor, Department of Industrial and Human Factors Engineering, Wright State University, Dayton, OH, USA

Third Place

ID 325 Intelligent Manufacturing Defect Visual Inspection with Temporal Samples: An Approach of Accumulated Knowledge Graph Reasoning with YOLO Stream-based Detection

Yiyun Fei, Mulang Song and Roger J. Jiao, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Shu Wang and Xinpeng Deng, TE Connectivity, Middletown, Pennsylvania, USA

ID 382 Microstructure Evolution and Defect Formation in TIG Welding of Aluminium 6082 Pipes

Ashutosh, Namrata Gangil, and Jitendra Yadav, Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, Uttar Pradesh, 201015, India

Arshad Noor Siddiquee, Department of Mechanical Engineering, Jamia Millia Islamia, New Delhi, 110025, India

Doctoral Dissertation Competition sponsored by Airbus

First Place

ID 323 Cognitive Intelligent Decision-Making for Digital Transformation of Reconfigurable Production Systems

Mulang Song, Georgia Institute of Technology, Atlanta, USA

Jianxin (Roger) Jiao, Georgia Institute of Technology, Atlanta, USA

Second Place

ID 358 Modeling Technological Enablers for Blockchain in Automotive Supply Chains: A Multi-Method Approach

Avinash Chauhan, PhD Student, Operations and Supply Chain, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, India

M Vimala Rani, Assistant Professor, Operations management & Decision Sciences, IIM Tiruchirappalli, India

Third Place

ID 144 Data-Driven Analytics for Manufacturing and Healthcare

Wuyang Qian, South Dakota School of Mines and Technology, SD, United States

ID 254 Evaluating the Impact of Critical Chain Project Management (CCPM) on Military Engineering Project Delivery: A Case from the Armed Forces of the Philippines

Romalyn L Galingan, Associate Professor, Technological Institute of the Philippines, Quezon City, Philippines

Masters Thesis Competition

First Place

ID 163 Defocus Annular Apertures At $\varepsilon = 0.3$

D. Sadanandam Research Scholar in BEST Innovation University, Gorantla, Assistant Professor in Shadan College of Engineering and Technology, Hyderabad, India

T. Kiran Kumar, Professor, Department of Physics, Brilliant Institute of Engineering and Technology Hyderabad India

Second Place

ID 108 Towards Intelligent Detection of Android Remote Access Trojans (RATs)

Nesreen Dalhy, MS Graduate Student, Department of Computer Science, Florida Polytechnic University, Lakeland, Florida, USA

Karim Elish, Associate Professor, Department of Computer Science, Florida Polytechnic University, Lakeland, Florida, USA

Third Place

ID 376 Fabrication and Evaluation of Mixed Tissue Phantom for Medical Ultrasound Research

Vivek Sharma, Department of Design and Manufacturing, Faculty of Engineering, Indian Institute of Science, Bangalore, India

AI-ML Competition

First Place

ID 319 AI-Powered Retrofitting for Smart Reverse Engineering: An Approach of NeRF-Based Multi-object Recognition in Complex Ambience with Noise

Chenxi Tao, Department of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Dongin Shin and Youngouk Kim, Korea Electronics Technology Institute, Seongnam-si, Gyeonggi-do, Korea

Hong-in Won, Korea Institute of Industrial Technology, Cheonan-si, Chungcheongnam-do, Korea

Seung-Kyum Choi and Roger Jiao, Department of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Second Place

ID 155 Last-Mile Delivery in High-Density Emerging Economy Cities Using Crowd-Generated Data and Artificial Intelligence

Vasanth Bhat, University of Central Florida, Orlando FL 32816, USA

Cristian Rincon-Guio, Institución Universitaria Politécnica Grancolombiano, Bogotá, Colombia

Luis Rabelo, Marwen Elkamel and Valeria Laynes, University of Central Florida, Orlando FL 32816, USA

Edgar Gutierrez-Franco, Massachusetts Institute of Technology, Cambridge MA 02139, USA

Third Place

ID 265 Enhancing STEM Education with AI: Fostering Soft Skills and Inclusion

Juan Sebastián Sánchez-Gómez, Universidad El Bosque, Bogotá, Colombia

Adriana Lopez, Luis Cruz and Cristian Zafra, Universidad Antonio Nariño, Bogotá, Colombia
Libis Valdez, Fundación Universitaria Antonio de Arévalo, Unitecnar, Cartagena, Colombia

Human Factors and Ergonomics Competition

First Place

ID 324 Ergonomic assessment of working conditions among sewing machine operators in Bangladesh

Jahid Hasan Ashik, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna, Bangladesh

Md. Shohel Parvez, Assistant Professor, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, Bangladesh

Mehayrun Nesa Shupiti, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna, Bangladesh

Second Place

ID 355 Remote Work in Public Educational Institutions: An Ergonomic and Organizational Assessment of Its Impacts on Health, Well-Being, and Labor Relations

Ricardo Suzuki, Graduate Program in Industrial Engineering, Universidade Federal de Santa Catarina, Florianópolis, Santa Catarina, Brazil

Carlos Ernani Fries, Department of Industrial and Systems Engineering, Universidade Federal de Santa Catarina, Florianópolis, Brazil

Third Place

ID 348 Safety Leadership Foundations and Tools: Practical Concepts for Effective Safety Leadership

Yassine Boutmir and Rachid Bannari, National school of applied sciences -Ibn Tofail university of Kenitra, Morocco

Fourth Place

ID 118 A Conceptual Framework for Integrating Exoskeleton Technologies in Healthcare

Andile Dube, Fadzai Dzehonye, Hillary Muzenda, Tanyaradzwa Nyamupaguma and Sibusisiwe Dube, Department of Informatics and Analytics, National University of Science and Technology, Bulawayo, Zimbabwe

Sinokubekezela P. Dube, School of Engineering, The University of Zambia, Lusaka, Zambia

Lean Six Sigma Competition

First Place

ID 30 Optimizing Performance of the Statapult® Device Using Lean Six Sigma

Falguni Pande, Gaurav Gujjeti, Sourabh Raghuwanshi and Sepideh Abolghasem, Department of Manufacturing Systems Engineering and Management, California State University, Northridge, CA, USA

Second Place

ID 140 Driving Operational Change for Small American Manufacturers: A DILO, Work Instruction, and Audit Approach at Elektro Assemblies

Naim Islam, Process Engineer & Alumni of Minnesota State University Mankato, Department of Automotive and Manufacturing Engineering Technology, Minnesota State University, Mankato, MN 56001, USA

Kuldeep Agarwal, Department of Automotive and Manufacturing Engineering Technology, Minnesota State University, Mankato, MN, USA

Third Place

ID 295 Lean Six Sigma in Radiology

Latasha Starr, Professor of Engineering, Department of Industrial Engineering & Management Systems, University of Texas A&M, College Station, TX, USA

David Kadari, Ibrahim Amin and Noah Noronha, Department of Engineering, Texas A&M University College of Engineering, College Station, Texas, U.S.A

Simulation Competition - Onsite

First Place

ID 320 Spiral Design and Simulation-Driven Deployment of a Drive-Through COVID-19 Testing and Housing Check-In System at a Large Public University

Valeria Laynes Fiascunari, Jorge Flavio Sarmiento Falla, Adan Vela, Sebastian Berdecia-Aparicio, Miguel Victoria, Elsayed Gabara and Luis Rabelo, University of Central Florida, Orlando FL 32817, USA

Second Place

ID 246 Preliminary Modeling of Cyber Attackers in Microgrids: An Agent-Based and System Dynamics Approach Enhanced with Statecharts

Jose Gonzalez-de-Durana, University of the Basque Country, Basque Country, Spain

Luis Rabelo and Juan Pablo Zamora-Aguas, University of Central Florida, Orlando FL, USA

Cristian Rincon-Guio, Corporación Universitaria Minuto de Dios – UNIMINUTO, Bogotá, Colombia

Third Place

ID 83 Simulation and Analysis of a Pharmacy Prescription and Vaccination Processes

Victorhiora De Castro Lima, MSIE and M. Ali Montazer, Ph. D., University of New Haven, West Haven, CT, 06516 USA

Simulation Competition - Online

First Place

ID 202 Dynamic Simulation Tool for the Analysis of the Effects of Man-Machine Ratio on the Productivity of Test Manufacturing of a Semiconductor Company

John Aldwin C. Perez, Josefa Angelie D. Revilla, Gabriel John L. De Leon, Julius Angelo DJ. Galang, Angelo C. Ani and Ven-Rem Bill A. Pasion, Department of Industrial Engineering, College of Agro-Industrial Technology, University of the Philippines Los Baños, Philippines
Carlo B. Miranda, Rex Aurelius C. Robielos and Mark Anthony C. Delfin, Operations Research Engineering Group, General Trias, Cavite, Philippines

Second Place

ID 280 Improving Production Performance Using Virtual Simulation Technologies: A Case Study of the Automotive Industry

Muhammad Ahmed Khalid, Umer Abid, and Ahtisham Munir, Students, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan
Amjad Hussain, Professor, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan
Amjad Mehmood, Director Operations, Technology and Management Integratix, Lahore, Pakistan
Mohammed Khurram Bhutta, Professor, Department of Management, Ohio University, Ohio, United States of America

Third Place

ID 259 Failure of Hemp Fiber Reinforced Composite Laminates

Som R. Soni, AdTech Systems Research Inc., 1342 North Fairfield Road, Beavercreek, Ohio 45432, USA
Craig Schluttenhofer, Agricultural Research and Development Program (ARDP), Central State University, Wilberforce, OH, USA

Supply Chain and Logistics Competition sponsored by aThingz

First Place

ID 193 A Capacitated Set Cover Formulation for Vertiport Location and Air Taxi Allocation

Zahra Zare, Graduate Student, Department of Industrial and Human Factors Engineering, Wright State University, Dayton, OH, USA
Mumtaz Karatas, Associate Professor, Department of Industrial and Human Factors Engineering, Wright State University, Dayton, OH, USA
Yu-Jun Zheng, Professor, Affiliated Hospital of Hangzhou Normal University, Hangzhou Normal University, Hangzhou, 310015, China
School of Information Science and Technology, Hangzhou Normal University, Hangzhou, 311121, China

Second Place

ID 255 Integrating Objectives and Key Results (OKRs) and Key Performance Indicators (KPIs) in Supply Chain Performance Management

Faraz Madanchi, Hamid Reza Maghroor, and Thomas O'Neal, Department of Industrial Engineering & Management Systems, University of Central Florida, Orlando, FL, USA

Third Place

ID 5 Blockchain Technology in Supply Chain Management

Jerry Diabor, Bowie State University, MD, United States

ID 82 A Computational Framework for Vaccine Selection: Comparing MEREC and CRITIC Weighting Techniques

S. S. Appadoo, Professor, Department of Supply Chain Management, University of Manitoba, Winnipeg, MB, Canada
Y. Gajpal, Associate Professor, Department of Supply Chain Management, University of Manitoba, Winnipeg, MB, Canada

High School STEM Competition

First Place

ID 296 RoadSense Utilizing Artificial Intelligence to Detect Drunk Drivers

Aryan Sharma, Calgary, Alberta, Canada

Second Place

ID 285 Comparison of Prediction Accuracy of Logistic Regression and Random Forest in Weather Data Time Series Analysis

Yejun Hwang and Dongho Shin, Student and Professor, My Paul School, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea

Third Place

ID 282 Comparative Analysis of Shortest Path Algorithms using Graph Theory

Minjun Kwon and Dongho Shin, Student and Professor, My Paul School, 12-11, Dowontongmi-gil, Cheongcheon-myeon, Goesan-gun, Chungcheongbuk-do, Republic of Korea
Jeongwon Kim, Department of Economics, College of Economics, Nihon University, 3-2 Kanda-Misakicho, Chiyoda-ku, Tokyo, Japan

Poster Competition - Research

First Place

ID 212 Smarter Airports Start with Smarter Reviews: An LLM-Based Framework for Automating Airport Service Quality Analysis

Bismack Tokoli, Department of Data Science and Business Analytics, Florida Polytechnic University, Lakeland, FL, USA
Abdulaziz Alhamadani, Assistant Professor, Department of Data Science and Business Analytics, Florida Polytechnic University, Lakeland, FL, USA

Second Place

ID 269 BayesIntuit: A Neural Framework for Intuition-Based Reasoning

Mayra Bornacelly, Independent Researcher, M.Sc. Data Science, University of Melbourne, Miami, FL, USA

Third Place

ID 339 Midpoint Environmental Impact Assessments of Selected Microgrid Systems

Aravind Sanikommu, Department of Engineering and Computer Science, Master of Science in Electrical Engineering, Arkansas State University, Jonesboro, AR, USA

Zahid Hossain, Department of Engineering and Computer Science, Professor of Civil Engineering, Arkansas State University, Jonesboro, AR, USA

Poster Competition - Presentation

First Place

ID 109 Evaluating the Capabilities of LLMs in Security Analysis for Mobile Applications

Joyce Champie, MS Graduate Student, Department of Computer Science, Florida Polytechnic University, Lakeland, Florida, USA

Karim Elish, Associate Professor, Department of Computer Science, Florida Polytechnic University, Lakeland, Florida, USA

Second Place

ID 322 Industrial-Aero Optimization for Agile Rocket Cargo Delivery: Logistics

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

Third Place

ID 220 Key factors of Industry 5.0 that impact the perception of its implementation in companies in the metropolitan area of Nuevo León

María de los Ángeles Martínez-Mercado, Argelia Vargas Moreno, Daniela del Carmen Bacre-Guzmán and Elva Patricia Puente-Aguilar, School of Chemical Science, Professors of Industrial Engineering and Management, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, México

Best Track Papers

Track #	Track Name	Best Track Paper ID
1	Artificial Intelligence and Data Science	351
2	Automation, Robotics, and Autonomous Systems	340
3	Business Management and Operations Management	250
4	Digital Manufacturing, Industry 4.0, and IoT	371
5	Engineering Education and Curriculum Improvement	115
6	Engineering Management and Project Management	373
7	Entrepreneurship and Innovation	101
8	Facility Planning and Layout	148
9	Human Factors, Ergonomics and Healthcare Systems	324
10	Lean Six Sigma and Operations Excellence	84
11	Manufacturing, Assembly, and Design	293
12	Quality, Reliability, and Maintenance	187
13	Simulation, Optimization, and Productivity Improvement	221
14	Supply Chain and Logistics	346
15	Sustainability, Green Systems and Energy	2
16	Case Studies and Best Practices	149