



IEOM Society

"Achieving and Sustaining Operational Excellence"

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2026 IEOM South American Panama Awards Industrial Engineering and Operations Management International Conference

Panama City, Panama, August 4-6, 2026

Venue: InterContinental Miramar Hotel

Frederick Taylor Award

Dr. Luis Rabelo
Professor, Department of Industrial Engineering & Management Systems
University of Central Florida
Orlando, FL, USA

Distinguished Leadership Award in Higher Education

Dr. Angela Laguna
President of Universidad Tecnológica de Panama

Dr. José Barrios Ng
President and Chairman of the Board
Universidad Latina de Panama

Distinguished Academic Leadership Award

Prof. Oscar León
Founder, President and Chairman of the Board
Quality Leadership University (QLU), Panama

IEOM Excellence in Sustainable Infrastructure Leadership Award

Engineer Ilya Espino de Marotta
Administrator of the Panama Canal Authority (2026–2033).

Distinguished Leadership Award in Higher Education

Marcela Paredes
Former Minister of Education
Former President, Technological University of Panama

Distinguished Industry Leadership Award

Ing/MBA Ivan Barría
CEO Pure New Energy Latam (Panamá)

Distinguished Industry Achievement Award

Ing. Julio Iván Rovi Sánchez
Professor of Mechanical Engineering, Universidad Tecnológica de Panamá (UTP)
Energy Consultant / Clean Energy Specialist

Panama

Distinguished Researcher Award

Dr. Javier Sanchez Galan
Research Coordinator
Professor, Facultad de Ingeniería de Sistemas Computacionales
Universidad Tecnológica de Panamá

Distinguished Educator Award

Juan Pablo Cardozo Real (Private University Association President)
Rector
Universidad del Istmo (U Del Istmo), Panama

Distinguished Builder and Pioneer of the Industrial Engineering Profession in the Republic of Panama

Dr. Maximiliano E. Jiménez
Management Consultant
Past Dean of Business School, Universidad Santa María La Antigua (USMA), Panama

Outstanding Professor Award

Dr. Ivan Garibay
Associate Professor
Industrial Engineering and Management Systems
University of Central Florida
Orlando, Florida, USA
Director, 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

Outstanding Researcher Award

Sharareh Taghipour, PhD, LEL
Canada Research Chair in Physical Asset Management
Professor, Department of Mechanical, Industrial and Mechatronic Engineering
Toronto Metropolitan University

Dr. Hector Florez
Professor, Universidad Distrital Francisco Jose de Caldas
Bogota, Colombia

Dr. Paulo Picota
Professor
Faculty of Computer Systems Engineering (Facultad de Ingeniería de Sistemas Computacionales – FISC)
Universidad Tecnológica de Panamá (UTP), Panama

Industry Best Practices in Digital Transformation

Dr. Kay Winkler
Director & Partner, NSI Soluciones
President, ABPMP Central America & Caribbean (former)
Vice President of Chapter Services, ABPMP International

Outstanding Professor Award in Operations Management

Ing/MBA Hernando Garzon Saenz
Docente
Fundación Universitaria Tecnológico Comfenalco Cartagena (Colombia)

Outstanding Industry Professional Award in Project Management Office (PMO) Leadership

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

Orlando, Florida, USA

Innovation in Education and Quality Improvement Award in Panama

Mariana León
Academic Vice-Rector
QLU, Panama

IEOM Outstanding Research and Innovation Award in Sustainable Supply Chain and Logistics

Dr. Ying Xie
Director of Logistics Cluster
University of Central Florida (USA)

Industry Best Practices in Lean - Six Sigma

José G. Sáenz,
Business Transformation & Operational Excellence Leader | Process, Performance & Digital Transformation | Driving Measurable Business Impact | Building Organizational Capability
Panama City, Panamá, Panama

Outstanding Professional in Quality Engineering in Latin America

Dr. José Carlos Flores Molina, Ph.D.
Director, Instituto para la Calidad (Quality Institute)
Professor, Department of Industrial Engineering
Pontificia Universidad Católica del Perú (PUCP)
Lima, Peru

IEOM Lean Six Sigma and Operational Excellence Award

Fernando Gonzalez Aleu, Ph.D. CPEM
Professor and Researcher
Engineering Department
Universidad de Monterrey (UEM)
Monterrey, NL, Mexico

IEOM Excellence in Teaching and Learning Award - Operations Research

Dr. Alfonso Sarmiento
Associate Professor
Industrial Engineering
Faculty of Engineering
University of La Sabana
Chía, Colombia

Leader in Supply Chain and Logistics in Latin America Award

Edgar Gutierrez-Franco, PhD
Associate Professor
Externado University of Colombia

Leader in STEM Education Award

Dr. Charles W. Davis, Jr.
Associate Professor of Engineering
Embry-Riddle Aeronautical University Daytona Beach

Outstanding Leadership in Business Incubator

Eduardo Ortega-Barria
SENACYT Director
National Secretary at National Secretariat for Science, Technology and Innovation
Panama City, Panamá, Panama

Outstanding Professor Award in Project Management

Ing/Mgt Melanie Castillo
Coordinator of Graduate Programs
Quality Leadership University (Panamá)

Innovation and Entrepreneurship Award

Alejandro Carbonell
Director of Innovation
City of Knowledge Foundation (Fundación Ciudad del Saber)
Panama City, Panama

Outstanding Clean Energy Leadership Award

Ing. Miguel Bolinaga
Presidente AES Panamá

Outstanding Student Award – IEOM Academic Excellence Award

Carla Fula
Undergraduate Student
Facultad de Ingeniería Industrial
Universidad Tecnológica de Panamá (UTP), Panama

Yini Pan
Undergraduate Student
Facultad de Ingeniería de Sistemas Computacionales
Universidad Tecnológica de Panamá (UTP), Panama

Oney Chala
Quality Leadership University (QLU), Panama

Competition Winners

Undergraduate Student Paper Competition sponsored by Siemens

First Place

ID 32 A Meta Synthesis of Key Behavioral Indicators Aligned with Shingo Model Principles and Industry 5.0 Pillars
Lori Balderas Espino Barros, Tessa Valentina Ramírez Castro, Ania Aurora Treviño, Fernando González Aleu González and Luz María Valdez de la Rosa, School of Engineering and Technology, Universidad de Monterrey, San Pedro Garza García, México
Edgar M. A. Granda Gutiérrez, Graduate School, Universidad de Monterrey, San Pedro Garza García, México

Second Place

ID 44 Omnichannel: Customer-Focused Experience
Guilherme Coli, João Vitor Pereira, Maria Clara da Silva Nogueira, Maria Eduarda Ferreira and Mariana Alves Cabral, Students, Production Engineering, FACENS University Center, Sorocaba, Brazil
Evelyn Amanda de Abreu Lopes Ramos, Advisor and Professor, Production Engineering, FACENS University Center, Sorocaba, Brazil

Third Place

ID 42 Comparing SMILES and SLICES Representations for Property Prediction of Molecules and Inorganic Crystals via Deep Learning
Cristelle Madrid, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama
Chris Bartel, Department of Chemical Engineering and Materials Science, University of Minnesota, Minnesota, USA
Javier E. Sanchez-Galan, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama

Undergraduate Research Competition sponsored by Daikin Applied

First Place

ID 123 Print Parameter Optimization of CF-PLA Composites for Aerospace Applications using AI
Abu Huraire Atta Ullah, Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan

Muhammad Abdullah Tahir, Mechanical Engineering Department, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Swabi, Pakistan
Hassam Ur Rehman, NUST School of Mechanical and Manufacturing Engineering, 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 and Former Associate Professor of CSE, LUMS, Lahore, Pakistan

Second Place

ID 18 Improvement of Equipment Availability Through Focused Improvement and Autonomous Maintenance in a Plastic Preform Manufacturing Company
María Gabriela Mujica Carpio, Gabriela Luciana Meiggs Pardave, Manuel Fernando Montoya Ramirez and Carlos Medardo Urbina Rivera, Carrera de Ingeniería Industrial, Universidad de Lima, Lima-Perú

Senior Design Project Competition

ID 82 Predictive Planetary Robotics: An AI-Driven Digital Twin Framework for Resilient Lunar Surface Operations
D. Alvarado, B. Barcelo, L. Carvalho, K. Collazo, D. Dilip, D. Hires and M. Urbina Barrios, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida 32816, USA
Carson Gray, Luis Rabelo and Mansoor Mollaghasemi, Department of Industrial Engineering and Management Systems, University of Central Florida

Human Factors and Ergonomics Competition

First Place

ID 86 The Contextual Adjustment Mechanism (CAM): A Dual-Layer Framework for Contextual Regulation in Socio-Institutional Service Systems
Alexis Rios, Universidad del Istmo, Panama

Second Place

ID 148 The Effect of Working Memory Capacity and Mental Workload on Students' Encoding Performance
Charls Darriel B. Casquejo, Department of Industrial Engineering, Visayas State University Isabel, Isabel, Leyte, Philippines
Darry Mhei L. Morales, Department of Industrial Engineering, Director, Research, Extension, and Innovation, Visayas State University Isabel, Isabel, Leyte, Philippines

Doctoral Dissertation Competition sponsored by Airbus

First Place

ID 29 An Integrated Framework for Last-Mile Delivery Optimization Using Reinforcement Learning and Social Media-Based Traffic Prediction in Underdeveloped Megacities
Vasanth Bhat, Luis Rabelo, and Valeria Laynes, University of Central Florida, Orlando, FL 32816, USA
Edgar Gutierrez-Franco, Universidad Externado de Colombia, Bogotá, Colombia
Marwen Elkamel and Juan Zamora-Aguas, University of Central Florida, Orlando, FL 32816, USA

Second Place

ID 34 Design of a pilot plant for the manufacture of Organic Semiconductor Films in Ecuador
Gabriela Joseth Serrano Torres, Facultad de Ingeniería, Universidad Anáhuac México, Av. Universidad Anáhuac 46, Col. Lomas Anáhuac, Huixquilucan 52786, Estado de México, México
Facultad de Ingeniería, Universidad Nacional de Chimborazo, Av. Antonio José de Sucre Km 1 ½ vía a Guano, Riobamba, Ecuador
María Elena Sánchez Vergara, Facultad de Ingeniería, Universidad Anáhuac México, Av. Universidad Anáhuac 46, Col. Lomas Anáhuac, Huixquilucan 52786, Estado de México, México
Universidad Tecnológica Fidel Velázquez, Emiliano Zapata S/N, Col. El Trafico, Nicolás Romero 54400, Estado de México, México

Graduate Student Paper Competition sponsored by Eaton

First Place

ID 36 Towards Agriculture 4.0 in Open Farming - EDEN Project for Hop Cultivation
Thiago Godoi de Arruda, Maria das Graças J. M. Tomazela, and Silvia Pierre Irazusta, Faculty of Technology (FATEC), Sorocaba, São Paulo, Brazil
Daniel Ribeiro de Sousa, São Paulo State University (UNESP), Bauru, São Paulo, Brazil
Felipe Ramos, and Vitor Mendes Caldana, Federal Institute of São Paulo (IFSP), Sorocaba, São Paulo, Brazil

Second Place

ID 198 A Partition-Based Scheduling Model for the Panama Canal
Gina Villafañe-Guerrero and James H. Bookbinder, University of Waterloo, Department of Management Science and Engineering, Waterloo, ON, Canada

Simulation Competition

First Place

ID 43 Omnichannel: Customer Focused Experience

Guilherme Coli, João Vitor Pereira, Maria Clara da Silva Nogueira, Maria Eduarda Ferreira and Mariana Alves Cabral, Students, Production Engineering, FACENS University Center, Sorocaba, Brazil

Evelyn Amanda de Abreu Lopes Ramos, Professor and Advisor, Production Engineering, FACENS University Center, Sorocaba, Brazil

Second Place

ID 73 AI-Enabled Digital Twins for Low-Carbon Logistics Network Planning: A Simulation-Based Optimization Framework

Halima Akter Rube, Global Logistics Systems & Trade, Compliance Specialist, ARGO HYTOS US, 1835 Research Drive, Bowling Green, Bowling Green, Ohio, USA

Md Ashiquzzaman Pavel, Graduate Teaching Assistant, School Of Engineering, Bowling Green State University, Technology Building, Bowling Green, OH, United States

Supply Chain and Logistics Competition sponsored by aThingz

First Place

ID 167 Application of Lean Warehousing Tools to Improve OTIF in an Automotive Company

Gean-Piero Ortiz-Davalos, Will-Arthuro Calla- Miranda- and Edilberto-Miguel Avalos-Ortecho, and José Taquía Gutierrez, Faculty of Engineering and Architecture, University of Lima, Lima, Peru

Second Place

ID 125 Optimization of Inbound Transportation through a Multi-Origin Heterogeneous VRP Model Using Milk-Run Routes in the Automotive Industry

Sara Bolaños Ledesma, Master in Logistic and Supply Chain Management, Universidad Popular Autónoma del Estado de Puebla, Puebla, Pue. México

Diana Sánchez Partida, Dean of the School of Industrial, Logistics, Manufacturing, and Automotive Studies, Universidad Popular Autónoma del Estado de Puebla, Puebla, Pue. México

Poster Competition

Poster Competition I

First Place

ID 71 An AI-Enabled Digital Twin Framework for Safe, Scene-Aware Lunar Rover Autonomy

Carson Gray, Jennifer Cifuentes, Abdiel Joseph, Matteo D'Agostino, Jonathan Gyure, Noah Y. Choi, Sean Crites, Luis C. Rabelo and Mansoor Mollaghasemi, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA

Second Place

ID 41 Considerations for the Development of an Intelligent System for Evaluating Mobility and Muscle Electrical Activity of the Lower Extremities during Gait in Healthy Adults

Gabriela Guevara, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama
Delky Meza-Valderrama, Instituto Nacional de Medicina Física y Rehabilitación – INMFRE, Caja de Seguro Social Panama City, Panama
Jose C. Rangel, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama
Javier E. Sanchez-Galan, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama

Third Place

ID 42 Comparing SMILES and SLICES Representations for Property Prediction of Molecules and Inorganic Crystals via Deep Learning

Cristelle Madrid, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama
Chris Bartel, Department of Chemical Engineering and Materials Science, University of Minnesota, Minnesota, USA

Javier E. Sanchez-Galan, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama

Poster Competition II

First Place

ID 22 Cultivating Probabilistic Thinking: An Experiential Simulation of Process Variation and Tampering

Christine Benz, Central Connecticut State University, New Britain, Connecticut, USA
Mohammad Rahman, Central Connecticut State University, New Britain, Connecticut, USA

Second Place

ID 40 Comparative Evaluation of Open-Source Deep Learning-Based OCR Engines for the Digitalization of Clinical Documents
Stanislava Ursulyak, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama
Javier E. Sanchez-Galan, Department of Computer Systems Engineering, Universidad Tecnológica de Panamá, Panama City, Panama

Third Place

ID 136 SORTCYCLE: Intelligent Automation System for the Sustainable Management of Solid Waste in Panama
Ana Paola Freitez Del Río and Cristell del Carmen Cedeño Prestán, Undergraduate Students in Mechatronics Engineering, Universidad Latina de Panamá, Panama City, Panama

Best Track Papers

Track ID	Track name	Paper ID	Paper Title	Country
1	Artificial Intelligence and Data Science	120	Data-Driven Decision Support for Central Bank Operations: Machine Learning and Structural Break Analysis for Inflation Forecasting — A Bolivian Case Study (1980–2026)	Bolivia
2	Automation, Robotics and Autonomous Systems	104	A Framework for Vision-Based Obstruction Detection in High-Density Robotic Warehouse Systems: Design Principles and Deployment Outcomes	Canada
3	Business Management and Operations Management	128	The AI Budget Paradox: A Tiered Access and Proficiency Framework for Sustainable Enterprise AI Adoption	USA
4	Digital Manufacturing, Industry 4.0 and IoT	81	Low-cost ECG signal acquisition and monitoring system for the early detection of cardiac abnormalities based on AD8232 and ESP32	Peru
5	Engineering Education and Curriculum Improvement	48	Educating Engineering Managers in Panama: Lessons Learned from Over Two Decades of a Dual Degree Program	Panama
6	Engineering Management and Project Management	97	Improvement Proposal to Reduce Preventive Maintenance Time of Electric Hoists Using 5S and Standardized Work	Peru
7	Entrepreneurship and Innovation	95	A Design Science Research Approach to Supporting Operational Management in Early-Stage MSMEs	Colombia
8	Facility Planning and Layout	73	AI-Enabled Digital Twins for Low-Carbon Logistics Network Planning: A Simulation-Based Optimization Framework	USA
9	Human Factors, Ergonomics and Healthcare Systems	86	The Contextual Adjustment Mechanism (CAM): A Dual-Layer Framework for Contextual Regulation in Socio-Institutional Service Systems	Panama
10	Lean Six Sigma and Operations Excellence	5	A Lean Six Sigma and SPC-Based Evaluation of Autoclave Sterilization Process Capability in Healthcare Systems	Colombia
11	Manufacturing, Assembly and Design	83	Sequence-Dependent Warm-Up Scheduling in Multi-Product EPQ under Carbon Tax Policy	Mexico
12	Quality, Reliability and Maintenance	177	The Relationship Between an ISO17025:2017 Accredited Laboratory and Operational Performance: A Case of Perishable Product Export Control Board Testing Laboratory	South Africa
13	Simulation, Optimization and Productivity Improvement	198	A Partition-Based Scheduling Model for the Panama Canal	Canada
14	Supply Chain and Logistics	164	From Efficiency to Resilience in Maritime Transport Systems: A MAPA-Based Framework for Explaining Why the Freight Rate Is No Longer the Cost of Transportation	Panama
15	Sustainability, Green Systems and Energy	76	Environmental Impact Assessment and Life Cycle Cost Analysis of Civil Infrastructure with Sustainable Materials	Peru
16	Case Studies and Best Practices	98	Keeping Pace with Growth: Vehicle Counting Stations and Population Trends in Texas (2012–2021)	USA
17	Computer Science	38	A Real-Time AI-Based Passenger Crowding Detection System for Public Transportation Using Deep Learning and IoT Communication	Panama

Best Track Papers

Artificial Intelligence and Data Science

ID 120 Data-Driven Decision Support for Central Bank Operations: Machine Learning and Structural Break Analysis for Inflation Forecasting — A Bolivian Case Study (1980–2026)
Ginamaria García Garcés, Director of the Industrial Engineering Program, Universidad Católica Boliviana San Pablo, Cochabamba, Bolivia

Automation, Robotics and Autonomous Systems

ID 104 A Framework for Vision-Based Obstruction Detection in High-Density Robotic Warehouse Systems: Design Principles and Deployment Outcomes
Livia Silveira Bezerra de Menezes, Efficient Plant Inc. (EPI), Laval, Quebec, Canada

Business Management and Operations Management

ID 128 The AI Budget Paradox: A Tiered Access and Proficiency Framework for Sustainable Enterprise AI Adoption
Kirandeep Viridi, New York University, New York, NY, USA
Sergio Mastrogiovanni, New York University, New York, NY, USA
IAE Business School, Buenos Aires, Argentina

Digital Manufacturing, Industry 4.0 and IoT

ID 81 Low-cost ECG signal acquisition and monitoring system for the early detection of cardiac abnormalities based on AD8232 and ESP32
Harold Lucho, Jhoan Gutiérrez, Elisvan Quispe and Leticia Rodríguez, Faculty of Electronic Engineering and Telecommunications, National Technological University of South Lima, Lima, Peru
Mario Chauca, Faculty of Electronic Engineering and Telecommunications, National Technological University of South Lima, Lima, Peru

Engineering Education and Curriculum Improvement

ID 48 Educating Engineering Managers in Panama: Lessons Learned from Over Two Decades of a Dual Degree Program
Mariana León, Quality Leadership University, Panama City, Panama
Oney Chalá, Quality Leadership University, Panama City, Panama
Faisal Aqlan, J.B. Speed School of Engineering, University of Louisville, Louisville, Kentucky, USA

Engineering Management and Project Management

ID 97 Improvement Proposal to Reduce Preventive Maintenance Time of Electric Hoists Using 5S and Standardized Work
Juan Machuca, Faculty of Engineering and Architecture — Industrial Engineering Program, Universidad de Lima, Lima, Peru
Luis Consuero and Ricardo Contreras, Faculty of Engineering and Architecture — Industrial Engineering Program, Universidad de Lima, Peru

Entrepreneurship and Innovation

ID 95 A Design Science Research Approach to Supporting Operational Management in Early-Stage MSMEs
Julián David González Zapata, Department of Industrial and Systems Engineering, Universidad Nacional de Colombia, Bogotá D.C. Colombia
Bertha Viviana Ruales Guzmán, Instituto de Ciencia y Tecnología de Alimentos, Universidad Nacional de Colombia, Bogotá D.C. Colombia
Angelo Cavallo, Instituto de Ciencia y Tecnología de Alimentos, Politecnico di Milano, Milano, Italia

Facility Planning and Layout

ID 73 AI-Enabled Digital Twins for Low-Carbon Logistics Network Planning: A Simulation-Based Optimization Framework
Halima Akter Rube, Global Logistics Systems & Trade, Compliance Specialist, ARGO HYTOS US, 1835 Research Drive, Bowling Green
Bowling Green, Ohio, USA
Md Ashiquzzaman Pavel, Graduate Teaching Assistant, School Of Engineering, Bowling Green State University, Bowling Green, OH, USA

Human Factors, Ergonomics and Healthcare System

ID 86 The Contextual Adjustment Mechanism (CAM): A Dual-Layer Framework for Contextual Regulation in Socio-Institutional Service Systems
Alexis Rios, Universidad del Istmo, Panama

Lean Six Sigma and Operations Excellence

ID 5 A Lean Six Sigma and SPC-Based Evaluation of Autoclave Sterilization Process Capability in Healthcare Systems
Ivanhoe Roza-Rojas, María Alejandra Jaimes-Quintanilla and Sergio Andrés Zabala-Vargas, Professor, Industrial Engineering, Corporación Universitaria Minuto de Dios, Bogotá, Colombia

Manufacturing, Assembly and Design

ID 83 Sequence-Dependent Warm-Up Scheduling in Multi-Product EPQ under Carbon Tax Policy
Amir Hossein Nobil, School of Engineering and Sciences, Tecnológico de Monterrey, Monterrey, Mexico

Quality, Reliability and Maintenance

ID 177 The Relationship Between an ISO 17025:2017 Accredited Laboratory And Operational Performance: A Case Of Perishable Product Export Control Board (PPECB) Testing Laboratory
Gcinumuzi Zimu, Master of Philosophy in Quality Management Student, Department Of Operations and Quality Management – Faculty of Management Sciences, Durban University of Technology, Durban, South Africa
Shalini Singh, Associate Professor, Department of Operations and Quality Management – Faculty of Management Sciences, Durban University of Technology, Durban, South Africa
Anisha Ananth, HoD Department of Statistics, Department of Statistics, Durban University of Technology, Durban, South Africa

Simulation, Optimization and Productivity Improvement

ID 198 A Partition-Based Scheduling Model for the Panama Canal
Gina Villafañe-Guerrero and James H. Bookbinder, Department of Management Science and Engineering, University of Waterloo, Canada

Supply Chain and Logistics

ID 164 From Efficiency to Resilience in Maritime Transport Systems: A MAPA-Based Framework for Explaining Why the Freight Rate Is No Longer the Cost of Transportation
Eddie Tapiero, Economist, Panama City, Panama

Sustainability, Green Systems and Energy

ID 176 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

Case Studies and Best Practices

ID 98 Keeping Pace with Growth: Vehicle Counting Stations and Population Trends in Texas (2012–2021)
Tulio Sulbaran, Professor1, Klesse College of Engineering and Integrated Design, The University of Texas – San Antonio, San Antonio, Texas
Afolabi, Adedeji and Olugbenro Ogunrinde, Assistant Professor, Construction Science and Management, Engineering Technology, Tarleton State University, Stephenville, Texas
Billy Gray, Associate Professor, Engineering Technology, Tarleton State University, Stephenville, Texas

Computer Science

ID 38 A Real-Time AI-Based Passenger Crowding Detection System for Public Transportation Using Deep Learning and IoT Communication
Lucia Cárdenas, Universidad Tecnológica de Panamá, Panama

