2021 IEOM Awards – 6th North American Monterrey Conference

IEOM Distinguished Academic Leadership Award
Dr. Jose Benito Flores-Juarez, Dean of Engineering and Technologies School, University of Monterrey, México

IEOM Distinguished Industry Leadership Award
Dr. Manuel Montoya, General Director of the Automotive Cluster of Nuevo León (CLAUT)

IEOM Distinguished Educator Award
Dr. José Ignacio Huertas, Professor, School of Engineering and Sciences, Energy and Climate Change Research Group, Instituto Tecnológico y Estudios Superiores de Monterrey, Campus Monterrey, Nuevo León, Mexico
Dr. Juan Baldemar Garza-Villegas, Professor, Engineering Department, University of Monterrey, México
Dr. Jesús Fabián López-Pérez, Professor, Universidad Autonoma de Nuevo Leon (UANL)

Distinguished Industry Achievement Award
Ing. Mónica Rodríguez, Automotive Cluster of Nuevo León CLAUT
John Ramiro Agudelo, Mechanical Engineering Professor, Universidad de Antioquia, Colombia
Franco Omar Ramos Langer, Channel Technical and Business Enablement Manager, Siemens Digital Industries Software, Digital Factory Division, Siemens DI Mesoamérica, Querétaro, México
Josep Miquel Piqué Huerta. PhD, HVAC at Carrier, President of Technova Barcelona – La Salle Innovation Park, Manager of Internationalization and Innovation – La Salle URL, Barcelona, Spain

Distinguished Professor Award
Dr. Fernando González Aleu, Associate Professor, Department of Engineering, University of Monterrey, México
Juan Carlos Rodríguez, Master Degree´s Professor at IBERO: Universidad Iberoamericana, Ciudad de México
Francisco Javier Solorio Ordaz, Universidad Nacional Autónoma de México

Outstanding Professor Award
Dr. John Ramiro Agudelo, Professor, Universidad de Antioquia, Colombia
Dr. Refugio Chávez-Hernández, Computer Science and Industrial Engineering Department, University of Monterrey, México
Dr. Marco Antonio Vildoso Flores, Secretary for Advance FIT Engineering Studies, San Sebastian University, Santiago, Chile

Outstanding Professor in Business Management
Dr. Federico Guadalupe Figueroa Garza, FACPYA, Universidad Autonoma de Nuevo Leon (UANL), Mexico
Dr. William Henry Steinwascher Sacio, University of Monterrey, México

Outstanding Professor in Logistics and Supply Chain
Dr, José Luis Martinez Flores, Professor, Graduate School in Logistics and Supply Chain Management, Universidad Popular Autónoma del Estado de Puebla (UPAEP), Mexico
Dr. Jose Manuel Sanchez, Professor of Production and Operations Management; Logistics and Supply Chain Management at the Graduate School of Engineering at the Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM), Mexico

Outstanding Professor in Lean Six Sigma
Dr. Jamison Kovach, PMI Houston Endowed Professor in Project Management and Director of the University of Houston College of Technology's Lean Six Sigma Program, University of Houston, Texas, USA
Dr. Edgardo J. Escalante−Vázquez, PhD, MBB, Professor Emeritus in Industrial Engineering, Tecnológico de Monterrey, Mexico

Outstanding Professor in Innovation
Dr. Azael Capetillo, Research Professor on topics of Innovation and Technology Management, and Product Development and Director of the Innovation GYM for pre-incubator, Tecnológico de Monterrey, Mexico

Outstanding Professor in HF
Dr. María Mayela Terán Cázares, FACPYA, Universidad Autonoma de Nuevo Leon (UANL), Mexico
Dr. Cristian Rusu, Full Professor and Head of the Research Group in Human-Computer Interaction "UseCV", School of Informatics Engineering, Pontificia Universidad Católica de Valparaíso, Chile

IEOM Outstanding Researcher Award
Dr. Ricardo Ambrocio Ramírez-Mendoza, Dean of Research, Tecnológico de Monterrey
Dr. Demófilo Maldonado, Engineering Mechanic and Electric Department, University of Monterrey

Innovation and Entrepreneurship Award
Dr. Juan Ignacio González, Professor, Engineering Management, University of Monterrey, México
Gustavo Alvarez, for his solutions toward sustainable mobility in university communities (bikes, buses). Ecuador. RELIEVE
Dr. Adriana Vargas Martínez, Researcher, Automotive Consortium for Cyberphysical Systems, School of Engineering and Sciences, Tecnológico de Monterrey, Mexico

IEOM Woman in Industry and Academia Award
Dr. Nicole Rodriguez van den Branden, Vice President & Chief Technology Officer, AT&T México
Lydia Gutierrez, President, Hacienda Mexican Foods, Detroit, Michigan, USA

IEOM Global Project Management Education Award
Dr. Timothy Anderson, Chair, Engineering and Technology Management Department, Portland State University, Portland, Oregon, USA

IEOM Global Engineering Education Award
Alma Gonzalez, Ph.D., Principal Consultant, STRATHA Learning Corporation, Mexico
Felipe Gómez Gallo, President at SPEED, Vice President for Student Affairs at IFEES, Trainee, United Nations Institute for Training and Research (UNITAR), Bogota, Colombia

IEOM Global Business Management Education Award
Dr. Luis Villarreal Villarreal, Director /Dean, Facultad de Contaduría Pública y Administración (FACPYA), Universidad Autonoma de Nuevo Leon (UANL), Mexico
Dr. Federico Trigos, Professor of Business Analytics and Director of the Master in Manufacturing Management, EGADE Business School, ITESM, Monterrey, Mexico and Member of the Mexican Academy of Science

IEOM Industry 4.0 Award
Ricardo Apaez, Innovation Director, Cluster Automotriz de Nuevo Leon, CLAUT, Monterrey, México
Reynol Eloy Villarreal Gonzalez, Facultad de Contaduría Pública y Administración (FACPYA), Universidad Autonoma de Nuevo Leon (UANL), Mexico

Industry Solutions Award
Mariela Cerrada, Full Professor in Mechatronics, Universidad Politécnica Salesiana, Quito, Ecuador
José Alfredo Galván Galván, Division Director. Engineering and Sciences School, Monterrey Campus at Tecnológico de Monterrey, Mexico
Dra. Natalia Navarrete, Chassis Technologies for EVs – Commercial Vehicles, Metalsa, Monterrey, NL, Mexico

Industry Solutions in automotive industry Award
Adrián Siller, General Director, SISTEMAS Automotrices De Mexico S.A. DE C.V. (SISAMEX), Mexico

Lean Six Sigma Award
Sergio Laria, General Director, Meritor, Mexico
Ana Lucia Arango Montoya, Senior Project Management, Ceiba Software, Medellín, Antioquia, Colombia

Business Management Teaching Award
Dra. María de Jesús Araiza, Universidad Autonoma de Nuevo Leon (UANL), México
Dr. Osmar Arandia, Postgraduate Director at the Business School, University of Monterrey, México

Teaching Excellence Award
Dr. Eugenia Suarez Moran, Research Professor, Universidad Panamericana, Zapopan, Jalisco, Mexico

Teaching Excellence Award in HF
María Mayela Terán Cázares, Facultad de Contaduría Pública y Administración (FACPYA), Universidad Autonoma de Nuevo Leon (UANL), México

Teaching Excellence Award in OM
Dr. Diego Alberto Oliva, Associate Professor, Universidad de Guadalajara, CUCEI, Guadalajara y alrededores, México

Teaching Excellence Award in IE
Dr. Patricia Eugenia Sortillón González, Universidad de Sonora, Hermosillo, Sonora, Mexico
Fabiola Sánchez Galván, Instituto Tecnológico Superior de Tantoyuca

Teaching Excellence Award in SCM
Teresa Verduzco-Garza, Computer Science and Industrial Engineering, University of Monterrey, México
Dr. Ana Julia Acevedo Urquiaga, Docente-investigador, Directora Grupo Investigación Desarrollos Industriales y SST, Fundación Universitaria San Mateo, Bogota, D.C., Capital District, Colombia

Teaching and Learning Award
Arturo Realyvasquez Vargas, Department of Industrial Engineering, Tecnológico Nacional de México/I.T. Tijuana, Tijuana, Baja California, Mexico

IEOM Distinguished Service Award
Dr. Luz María Valdez de la Rosa, Professor in Engineering Management, School of Engineering & Technologies University of Monterrey, México
Dr. Edgar M. A. Granda. Director of Masters in Engineering Management. University of Monterrey, Mexico
Dr. Jenny Díaz, Professor, Engineering Department, University of Monterrey, México
M.Sc. Karol Villarreal Zambrano, Engineering Department, University of Monterrey, México

IEOM Outstanding Service Award
Dr. M. Affan Badar, CPEM, Professor, Applied Engineering and Technology Management Department, Indiana State University, , Terre Haute, Indiana, USA
Dr. A. Mehran Shahhosseini, Professor, Applied Engineering and Technology Management Department, Indiana State University, Terre Haute, Indiana, USA

IEOM Ambassador Award
Dra. Mónica Blanco, FACPYA, Universidad Autonoma de Nuevo Leon (UANL), México
Dr. Laura Peña-Parás, Mechanical and Electrical Engineering Department, University of Monterrey, México

Outstanding Track Chair Award
Dr. José Daniel Morcillo. Civil and Management Engineering, University of Monterrey, México
Dr. Jesús Cruz-Álvarez, Autonomous University of Nuevo León, México

IEOM Outstanding Student Academic Award
Sebastián Zazueta, University of Monterrey, México

IEOM Outstanding Student Leadership Award
Sofía Martínez Tamez, University of Monterrey, México

Completion Awards

Undergraduate Student Paper Competition Sponsored by SIEMENS - Onsite

First Place Winner - Onsite
ID 487 Real-time Biofeedback System for Interactive Learning using Wearables and IoT
Milton O. Candela-Leal, Juan M. García-Briones, Gustavo Olivas-Martínez, Rafael Abrego-Ramos, Gabriela J. Álvarez-Espinoza, Diego M. Botín-Sanabria, Karen L. Rodríguez-Hernández, José F. Pachego-Quintana, Sofía Sampogna-Montemayor, Ruben Morales-Menendez, Ricardo A. Ramírez-Mendoza, Mauricio A. Ramírez-Moreno, Jorge de J. Lozoya-Santos
School of Engineering and Sciences, Tecnologicode Monterrey, Monterrey, NL 64849, Mexico
Juan C. Tudón-Martínez. School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza García, NL 66238, Mexico

2nd Place Winner - Onsite
ID 133 Understanding Makerspaces' Goals and Success
Laura A. Valadez Rojas and Azael Capetillo, School of Engineering and Sciences, Tecnológicode Monterrey, Av. Eugenio Garza Sada2501 Monterrey 64849, NL, México

3rd Place Winner - Onsite
ID 255 Release and Start-up of the Stellantis DS Mirrors Production Line
Katia MayelaLozano Ortiz, María Fernanda Vázquez Fernández, Alondra Valeria Salazar Orozco, Industrial and Systems Engineering Students, Universidad de Monterrey, Nuevo León, México

Undergraduate Student Paper Competition Sponsored by SIEMENS - Online

First Place Winner - Online
ID 099 The Alternatives on Last Mile Delivery Logistics: Insights on Customers' PreferencesBrunaMeireKuhlGomes CassianaTeza, Gabriel Cassino, Rodrigo Luiz Gigante, Henrique Ewbank, FacensUniversity, Sorocaba, SP, Brazil

2nd Place Winner - Online
ID 105 Investigating the Factors Affecting Lean Marketing Readiness in the Retail Sector in Sri Lanka
ApoorwamaIllanganthilake, RuwanWickramarachchi
Department of Industrial Management
University of Kelaniya, Sri Lanka
Undergraduate Student Paper CompetitionSponsored by SIEMENS

3rd Place Winner - Online
ID 413 Collaborative model between Data Analytics and PDCA for service level improvement in environmental consulting SMEs Juan

Carlos Quiroz-Flores and Martín Collao-Diaz, Faculty of Engineering and Architecture, Industrial Engineering Program, Universidad de Lima, Perú
GianellaChavez-Osorio and Sebastian Guillen-Valdivia, Faculty of Engineering, Industrial Engineering Program, Universidad Peruana de Ciencias, Aplicadas, Lima -Perú

3rd Place Winner - Online
ID 275 Determining Strategies for the Perfect Shade Mobile Application Using SWOT Analysis and Six Thinking Hats
BryelleTimothy C. Nisperos, Joshua YñigoN. Pascual, Jerome Patrick S. Ramos, Grace Lorraine D. Intal, School of Information Technology, Mapua University, Makati, Philippines

3rd Place Winner - Online
ID 150 Designing a Data Governance Model to Implement GDPR in Sri Lankan Enterprises.
P.A. Indhumini Ranathunga, and Ruwan Wickramarachchi, Dept. of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

Undergraduate Research Competition - Onsite

First Place Winner
ID 272 The Incorporation of Eco-Friendly Light Vehicles in Logistics Distribution Models: A Systematic Review
Sebastián Zazueta-Nassif, Roberto Galarza-Tamez, Vicente Montemayor-Villarreal, Industrial and Systems Engineering, Universidad de Monterrey, San Pedro Garza Garcia, Mexico
Jenny Díaz-Ramírez, School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza Garcia, Mexico

2nd Place Winner
ID 274 Discrete Choice Models for Transportation Mode Choice: A Systematic Literature Review
Juan Estrada-García, Juliana Figueroa, Ezequiel González, Jenny Díaz-Ramírez, Department of Engineering, Universidad de Monterrey
San Pedro Garza García, Mexico

Undergraduate Research Competition – Online

1st Place Winner - Online
ID 276 SAFE: Smart Application for Emergency
John NicoloT. Cruz, Gabrielle Angelo D. Gabatin, John Gerick B. Gabunilas, and GlorenS. Fuentes, School of Information Technology, Mapua University, Makati City, Metro Manila, Philippines

2nd Place Winner - Online
Undergraduate Research Competition
ID 335 Distraction and Driving Behavior of Young Indonesian Drivers: An Exploratory Study
WinaD. Oktavia, Manik Mahachandra, Excel Verlieson, Industrial Engineering Department, Faculty of Engineering, DiponegoroUniversity, Semarang, Central Java 50269, Indonesia

3rd Place Winner - Online
ID 277 Online Scheduling System for Doctors and Patients in a Hospital
Marion Rylan Q. De Guzman, JonnLouis N. Ordoñez, Ronald O. Somocierra, and GlorenS. Fuentes, School of Information Technology
MapúaUniversity, Makati City, Metro Manila, Philippines

Sr. Design Project CompetitionSponsored by Tooling Tech Group

First Place Winner
ID 211 Process Improvement for High Precision Components at Medical Devices Company (MDC)
Gamaliel NegrónGuzmán, Joshua Ríos Vachierand JannettePérez-Barbosa, Department of Engineering
Universidad Ana G. Méndez, Gurabo, Puerto Rico 00778, USA

2nd Place Winner
ID 021 Reciprocating sliding motion tribometerdesign
DemófiloMaldonado Cortés, Dra. Laura Peña Parás, Mechanical and Electronics Department, University of Monterrey, Monterrey, México
Lizbeth Pérez Alvizo, Yadira LisseteRangel Acosta, JesúsRicardo Puente Martínez, Mechanical Engineering Students, Universidad de Monterrey, Monterrey, México

High School STEM Competition

First Place Winner
ID 071 Determining SenecioElegansPopulation Size and Dispersion Patterns in order to Inform Volunteer Removal Efforts
Tanisha Gupta, Stanford University Online High School, Redwood City, CA 94063, USA

Second Place Winner
ID 073 Relationship between Playing Video Games and Happiness
Allie Lin, Stanford Online High School, Redwood City, CA, USA

Third Place Winner
ID 142 Analysis of the Correlation between Imposter Syndrome and Grade Level of Online High School Students
Ester Weinhardt, Stanford Online High School, Redwood City, 94063 CA

Graduate Student Paper Competition Sponsored by EATON Corporation - Onsite

First Place Winner
ID 515 Efficient Cumulative Sum Chart for Monitoring Fraction Nonconforming
Fathy Alkhatib, Salah Haridy, Mohammad Shamsuzzamanc, Imad Alsyoufd, Department of Industrial Engineering and Engineering Management, University of Sharjah Sharjah, UAE
Ahmed Maged, Deapartmentof Systems Engineering and Engineering Magamanent, University of Hong Kong Kowloon, Hong Kong, China

2nd Place Winner
ID 195 Increasing Profitability through the Implementation of an Integrated BSC-OKR Model in a Digital Agency: The Peruvian Case
IyariRojas-Chipana, NicolasAguilar-Pelizzoli, Juan Carlos Quiroz-Flores, Martín Collao-Diazand Alberto Flores-Perez, Facultad de Ingeniería y, Arquitectura, Universidad de Lima, Lima, Perú

3rd Place Winner
ID 186 Application of Lean Manufacturing tools to decrease non-conforming products in a zinc refinery
Alberto Flores-Pérez, Juan Quiroz-Flores, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú
Iván De Fuentes Pérez, Independent mechanical project consultant, Industrial Engineering Program, University of Applied Sciences, Perú

Graduate Student Paper Competition Sponsored by EATON Corporation - Online

First Place Winner -Online
ID 377 A Hybrid Artificial Neural Network and Logistics Regression Model for Fashion Sales Strategies Prediction
Rifdah Zahabiyah and Andi Cakravastia, Industrial Engineering Program, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia

2nd Place Winner -Online
ID 374 The Analysis on Factors influencing the Use of Mobile Payment System Among Generation Z in Indonesia
Kurnia Fajar Afgani, School of Business and Management, Institut Teknologi Bandung
Dematria Pringgabayu, Politeknik Pajajaran ICB, Bandung, Indonesia
Emilia Fitriana Dewi, School of Business and Management, Institut Teknologi Bandung
Octaviani Ratnasari Santoso, Politeknik Pajajaran ICB, Bandung, Indonesia
Zxavian Zebadia Simorangkir, School of Business and Management, Institut Teknologi Bandung, Indonesia

3rd Place Winner - Online
ID 497 Service Quality Assessment of Local Government Units' COVID Pandemic Response using Factor Analysis
Gabriel C. Bucu, Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines and Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
Ariel A. Salvador Jr., Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Master Thesis Competition

First Place Winner
ID 128 Data Driven Supply Chain Optimization a Case Study
Sandra N. Garza Almazán and Edgar M.A. Granda Gutiérrez, Department of Engineering, Universidad de Monterrey, Monterrey, Nuevo León 66238, México

2nd Place Winner
ID 397 The Stakeholders' Perceptions on Critical Success Factors for Construction Projects
GomolemoLovell Phetlhu, Faculty of Engineering and the Built Environment, University of Johannesburg, Gauteng, South Africa

3rd Place Winner
ID 475 Modelo para detectar el estado glucémico en pacientes sanos.
Luis Alejandro Guzmán Rangel, UDEM, Mexico

Doctoral Dissertation Competition

First Place Winner
ID 351 Real-world Vehicle Emissions in Mexico
Antonio E. Mogroand José Ignacio Huertas, School of Engineering and Science, Tecnologicode Monterrey, Monterrey, Mexico

2nd Place Winner
ID 417 Medical Surge Capability: An Intelligent Framework for Improving Hospital Emergency Department Operations
Egbe-Etu Etu, Department of Marketing and Business Analytics, San Jose State University, San Jose, CA 95192, USA
Leslie Monplaisir, Celestine Aguwa, Sara Masoud, Department of Industrial & Systems Engineering, Wayne State University, Detroit, USA
Suzan Arslanturk, PhD, Department of Computer Science, Wayne State University, Detroit, MI 48202, USA
Joseph Miller, MD, Department of Emergency Medicine, Henry Ford Hospital, Detroit, MI 48202, USA

3rd Place Winner
ID 390 The effect of Organizational Culture Dimensions on Work Engagement and Burnout during COVID-19 pandemic
Cynthia Karyna López-Botello, Adriana Segovia-Romo and Joel Mendoza-Gómez, Facultad de Contaduría Pública y Administración Universidad Autónoma de Nuevo León, Nuevo León, México

3rd Place Winner
ID 418 A Framework to Foster Innovation-Driven Enterprises Creation in the University, the Case of Monterrey Region in Mexico.

Alejandro Téllez Girón Barrera and David Güemes Castorena, School of Engineering and Sciences, Tecnologicode Monterrey, NL, Mexico

Human Factors and Ergonomics Competition

First Place Winner
ID 426 Social Media Consumption Pattern Of Generation Z In Malang Towards The Preservation Of Malangan Masks
Erika Danny Mulyadi, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University Jakarta 11480, Indonesia
Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

2nd Place Winner
ID 022 The Accuracy of Dynamic Simulation with the Use of TSB within JACK Siemens PLM software
XiaoxuJi, Justo Hernandez, Emily Schweitzer and Alexa Littman, Department of Biomedical, Industrial and Systems Engineering, Gannon University, Erie, PA 16541, USA

3rd Place Winner
ID 432 Human Resource 4.0: A vision of a technological tool to assess and foster employee engagement
Juliana Salvadorinho, Andreia Vitória, João Marques, Celeste Varum, Carlos Ferreira, Leonor Teixeira, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Research unit in Governance, Competitiveness and Public Policies (GOVCOPP), Department of Social, Political and Territorial Sciences (DSPTS), Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Aveiro, Portugal

Supply Chain and Logistics Competition

First Place Winner
ID 144 Evaluation of the Feasibility of Centralization of Warehouses in the Construction Company VIDUSA
Ana Paula Ocañas Morales, Brando M. Rodríguez Vallejo, Ricardo C. Lozano Cantú, Business Management Engineering, Industrial and Systems Engineering, Industrial and Systems Engineering, University of Monterrey, México
Refugio Chávez Hernández, Doctorate in Supply Chain Management and Logistics, University of Monterrey, México

2nd Place Winner
ID 613 LAC pilot project for green last-mile urban freight delivery services
Prato Daniel1, Reinoso Camila1, 1Latin-American Center For innovation in Logistics, Bogotá, Colombia

3rd Place Winner
ID 265 Raw Material Supply Configuration with Short Shelf Life in a Production Scenario MTS/MTO Minimizing Operational Risk and Cost
Lucas Ramírez Ramírez, Engineering Magister Program Student, Universidad de Antioquia, Medellín, Colombia
Carmen Elena Patiño Rodríguez, Industrial Engineering Department, Universidad de Antioquia, Medellín, Colombia
Gloria Milena Osorno Osorio, Industrial Engineering Program, Unidad Central del Valle del Cauca, Tuluá, Colombia

Supply Chain and Logistics Competition

First Place Winner
ID 146 Establishing Risks of Food Supply Chains for Small and Medium Food Manufacturing Companies in Malaysia
Siti Aishah Hadawiah Ahmad and Mohd Nizam Ab Rahman, Department of Mechanical and Manufacturing, The National University of Malaysia, Selangor, Malaysia
Ariff Azly Mohamed, Department of Business and Management, Universiti Teknologi Mara, Selangor, Malaysia

Poster Competition

First Place Winner
ID 564 Statistical Analysis Methods changed from Traditional to a Continuous Annealing Heat Treatment in a Copper Wire Drawn Machine
Francisco Antonio Perales Carballedo, UPAEP University, México
José Luis Martínez Flores, UPAEP University, México

Best Track Papers

Best Track Paper - Artificial Intelligence
ID 308 A Classification Model based Spaced Repetition Approach using Facial Expressions and Hand Over Face (HOF) Gestures
D. M. S. P. Dissanayaka and K. Wijayasiriwardhane, Dept. of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

Best Track Paper - Technology Management
ID 094 Curriculum Revision of a Ph.D. program in Technology Management to Keep it Relevant and Manageable
A. Mehran Shahhosseini, M. Affan Badar, Farman A. Moayed, James N. McKirahan, and Cindy L. Crowder
College of Technology, Indiana State University, Terre Haute, IN 47809, USA

Best Track Paper - Automation and Control
ID 245 Biodynamic Suspension Model in a Comfort-Oriented QoV Control System
Abelardo Rodriguez-Moreno, E.A. Sánchez-Segoviano, L.A. Santa Cruz, and L.C. Félix-Herrán, School of Engineering and Sciences Tecnologicode Monterrey, Hermosillo, SON, 83000, Mexico
Jorge de-J. Lozoya-Santos, School of Engineering and Sciences, Tecnologicode Monterrey, Monterrey, NL, 64849, Mexico
Juan C. Tudón-Martínez, Divisiónde Ingenieríay Tecnología, Universidad de Monterrey, Monterrey, NL, 66238, México

Best Track Paper - Construction Management
ID 034 AHP Method for Supply Chain Management Performance Measurement in Construction (Study Case: Bridge Project)
Anita Mustikasari, Management Department, Yogyakarta State University, Indonesia
Naniek Utami Handayani, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia
Mochammad AgungWibowo Civil Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia
Cheminik Sugondo Simanungkalit, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, Indonesia

Best Track Paper - Competitiveness and Value Chain
ID 145 Strategic Value Propositions to Increase Competitiveness in a Tourism Cluster
Teresa Verduzco-Garza, Industrial Engineering, Engineering School, University of Monterrey UDEM, San Pedro Garza Garcia, NL, México
J. Gerardo Rodríguez Beltránand José Pablo Nuñode la Parra, Popular Autonomous University of Puebla UPAEP Puebla, Pue, Mexico

Best Track Paper - Data Analytics and Big Data
ID 521 An aggregated time series forecasting model for the health and wellness sector: case of a Brazilian retail company
Carlos Ernani Fries and Vitor Rodrigues, Department of Production and Systems Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil

Best Track Paper - Data Analytics and Big Data
ID 419 Dimensionality Reduction and Text Mining for Smart Content Filtering of an Online Health Forum
Reinaldo Sanchez-Arias, Roberto Batista, Levi C. Nicklas, Department of Data Science and Business Analytics, Florida Polytechnic University, Lakeland, USA
Peter Akioyamen, The School of Mathematical and Statistical Sciences, Western University, Ontario, Canada

Best Track Paper - Engineering Management
ID 126 A Cost-Benefit Approach to Thermo-Processing Equipment Safety Regulation Analysis
Motshumi Joseph Diphare, Hannelie Nel and Jan-Harm C. Pretorius, Postgraduate School of Engineering Management
University of Johannesburg, Johannesburg, South Africa

Best Track Paper - Entrepreneurship and Innovation
ID 143 Design methods and challenges of open innovation: collaborative and multidisciplinary processes.
Felipe Torres Benoni, Civil Engineering Department, University of Santiago, Ave. Libertador Bernardo O'Higgins 3363, Santiago, Chile
Roberto Duran Novoa, Engineering Design Department, Federico Santa Maria Technical University, Ave. Vicuña Mackenna, Santiago, Chile

Best Track Paper - Entrepreneurship and Innovation
ID 369 Implementation of MSMEs Competitiveness Improvement Model to Strengthen Entrepreneurial Aspects in Malang City
Ajeng Mira Herdina, Riesta Devi Kumalasari, Priska Arindya Purnama and Murniati, Entrepreneurship Department, BINUS Business School
Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Best Track Paper - Systems Dynamics
ID 328 Systemic analysis of the electrification of last-mile freight transport
Julieth Stefany García Collazos, Facultadde Minas, Universidad Nacional de Colombia, Medellín, Colombia
Laura Milena Cárdenas, Facultadde Ingeniería, Universidad de Antioquia, Medellín, Colombia
Carlos Jaime Franco, Facultadde Minas, Universidad Nacional de Colombia, Medellín, Colombia

Best Track Paper - Lean Six Sigma
ID 214 Productivity Improvement in a Sugar Company: A Lean management approach
Maximiliano Arroyo Ulloa, Faculty of Engineering, Universidad Católica Santo Toribiode Mogrovejo, Chiclayo, Peru
Lucio Llontop Mendoza, Universidad Católica Santo Toribiode Mogrovejo, Chiclayo, Peru, Lima, Peru
Javier Beltran Reyes, Business Intelligence Department, Comercio-Group, Lima, Peru

Best Track Paper - Logistics
ID 166 Developing a Performance Measurement Framework for Logistics Service Providers
Paitoon Varadejsatitwong, Ruth Banomyong and Puthipong Julagasigorn, Thammasat Business School, Thammasat University, Bangkok, Thailand

Best Track Paper - Supply Chain Management
ID 268 Two Decades of Closed-loop Supply Chain: A Bibliometric Analysis
Imnatila Pongen, Department of Operations Management, Indian Institute of Management Ranchi, Jharkhand-834008, India

Best Track Paper - Quality and Reliability
ID 523 Monitoring Multi-Attribute Characteristics using a Combined Scheme of np and EWMA Charts
Farah Alyassi, Salah Haridy, Mohammad Shamsuzzaman and Imad Alsyouf
Department of Industrial Engineering and Engineering Management
University of Sharjah, Sharjah 27272, United Arab Emirates

Best Track Paper - Production Planning and Management
ID 204 The Production Planning Practices and Techniques Impact on Operational Costs in South African Manufacturing industries
Selowa Brian Tumiso, Bakama, Eric Mikobi and Khathutshelo Mushavhanamadi, Quality and Operations Management Department, University of Johannesburg, South Africa

Best Track Paper - Energy (and Energy Efficiency)
ID 496 Microgrid Supplier Selection Problem Considering Euclidean Distance and Ideal Vector System
Trinidad Reyes and Jose F. Espiritu, Industrial Manufacturing and System Engineering Department, The University of Texas at El Pas, El Paso, TX, 79968, USA

Best Track Paper - Materials Engineering
ID 090 Enhancement of Corrosion Resistance of Hot-Dip Galvanized Carbon Steel by Low Amount of Ni Addition
Rafael Gonzalez-Parra, Arturo Barba-Pingarrón, RaúlValdez-Navarro, Alba Covelo-Villar, Miguel A. Hernández-Gallegos
Centro de Ingenieríade Superficies y Acabados(CENISA). Departamentode Ingenieríade, Diseñoy Manufactura. Divisiónde Ingeniería Mecánicae Industrial. Facultadde Ingeniería., UNAM. 2o Nivel. Edificio"T" (Bernardo Quintana), Circuito Exterior, Ciudad Universitaria, Coyoacan, 04510, Ciudad de México
Javier Cervantes-Cabello, Centro de Ingeniería Avanzada, Departamentode Ingenieríade Diseñoy Manufactura, Divisiónde Ingeniería Mecánicae Industrial, Edificio Ciudad Universitaria. Coyoacan, 04510, Ciudad de México

Best Track Paper - Engineering Education
ID 095 The Toyota Production System Principles and Behaviors in a Higher Education Institution Classroom
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