IEOM Leadership Award
• Dr. Jean-Philippe Ammeux, Dean, IÉSEG School of Management, Lille, France

IEOM Distinguished Academic Award
• Caroline ROUSSEL, Academic Dean – IESEG School of Management

IEOM Research Leadership Award
• Ing. Jacobo Tijerina Aguilera, Director – Division of Extension, Consulting and Research, Univeristy of Monterrey, San Pedro Garza García, N.L., México

IEOM Outstanding Researcher Award
• Prof. Khumbulani Mpofu, Gibela Research Chair in Manufacturing and Skills Development, Professor of Industrial Engineering Department, Tshwane University of Technology (TUT), Pretoria, South Africa

IEOM Distinguished Educator Awards
• Pr. Alexandre Dolgui, Distinguished Professor (Full Professor of Exceptional Class in France), Head of Automation, Production and Computer Sciences Department, IMT Atlantique, Nantes Cedex 3, France
• Dr. Bart L. MacCarthy, Professor of Operations Management, Division Head – Operations Management and Information Systems, Nottingham University Business School, University of Nottingham, United Kingdom (UK)
• Dr. Yugang YU, Executive Dean, School of Management, University of Sci. & Tech of China (USTC), Hefei, Anhui, China

IEOM Distinguished Industry Awards
• Pascale Herman, Marketing Director, Valeo Thermal Systems Business Group, Paris, France
• Charles Sagna, Thermal Academy Director, Valeo Thermal Systems Business Group, Paris, France
• Pascale Herman, Marketing Director, Valeo Thermal Systems Business Group, Paris, France
• Charles Sagna, Thermal Academy Director, Valeo Thermal Systems Business Group, Paris, France
• Dr. Frédéric MORET, Industrial Director of Faurecia, Paris, France
• Nicolas SILVESTRE, Digital Transformation Director, Faurecia, Paris, France
• Stéphane COUDURIER CURVEUR, Industrial Process Performance Excellence, Injection Senior Manager & Senior Expert, Faurecia - Interiors - Central Manufacturing, Méru, France

IEOM Woman in Industry and Academia Award
• Dr. Linda Zhang, Professor of Operations Management, IESEG School of Management, Paris La Défense, France

IEOM Distinguished Service Awards
• Dr. Linda Zhang, Prof. of Operations Management, IESEG School of Management, Paris La Défense, France
• Celine LESUUN, IESEG School of Management, Paris, France

IEOM Industry Solutions Awards
• Rubén Elvira-Herranz, Services Program Manager, Military Aircraft, Airbus, Madrid, Spain
• Foad Hosseinkhani, Director of Quality Assurance, Performance and Business Improvement, Amor Health Services, Inc., Brownsville, Texas, USA

IEOM Global Engineering Education Awards
• Dr. Matteo Mario Savino, Professor, University of Sannio, Benevento, Italy

IEOM Outstanding Service Appreciation Awards
• Dr. Chavi Chen, IÉSEG School of Management, Paris, France
• Dr. Tanja Mlinar, IÉSEG School of Management, Paris, France
• Dr. Ali Siadat, Professor, Arts et Métiers ParisTech de METZ, Metz, France
Undergraduate Student Paper Competition Awards Sponsored by SIEMENS

1st Place
ID 485  Design of a Centralized Warehouse Layout and Operation Flow for the Automotive Industry: A Simulation Approach
Adriana Margarita Verduzco Guzmán, Kathia Montserrat Montalvo González, Marianna Frias Canales, María Teresa Verduzco Garza, Universidad de Monterrey, N.L., Mexico
Fátima Briñeo de la Rosa, Daimler AG, N.L., Mexico

2nd Place
ID 471  Line Balancing in Assembly Line - A Case Study
Fabiola Mercedes Arango García, Michelle Eugenia Sánchez Barrientos, Valeria Argumedo Hinojosa, Teresa Verduzco-Garza, Fernando González-Aleu and Jesús Vázquez, Universidad de Monterrey, Mexico

3rd Place
ID 158  Autonomous Container Crane to Simplify Crane Operational Based on Image Processing and Distance Calculation
Wikandhana Rajasa, Septia Sari, Rasyid Fajar and Muhammad Habibie, Institut Teknologi Sepuluh Nopember, Indonesia
ID 370  Redesigning a Retail Store Based on Association Rule Mining
Dalal Al Attal, Mariam Naser, Nourah AlBaghili, Nourah Al Muhaimeed and Sarah Al Awadh, American University of the Middle East, Eqaila, Kuwait

Graduate Student Paper Competition Awards sponsored by EATON Corporation

1st Place
ID 458  The Effect of Ceiling Height on Thermal Comfort for Ceiling-Based Air Distribution Systems Vs Underfloor Air Distribution Systems in an Office Space
Meshal AlOtaibi, University of Kansas, USA

2nd Place
ID 347  Introducing Statistical Process Control Techniques into a Headliner Subassembly Process
Torie G. Rose, Lawrence Technological University, USA

Senior Design Project Competition Award

1st Place
ID 374  Improvement of Diabetes Awareness: Applying Six Sigma to Increase Teachers Awareness Regarding Diabetic Children in Primary Schools in Kuwait
Fatemah Al-Juhaim, Layali Al-Dhefeeri, Rawan Al-Shatti, Shaikha AlDaboos, and Walid Smew, American University of the Middle East (AUM), Eqaila, Kuwait

Best Poster Awards

1st Place
ID 158  Autonomous Container Crane to Simplify Crane Operational Based on Image Processing and Distance Calculation
Wikandhana Rajasa, Septia Sari, Rasyid Fajar and Muhammad Habibie, Institut Teknologi Sepuluh Nopember, Indonesia

2nd Place
ID 162  Investigating the Awareness of Decision-Making Heuristics and Biases in the Selection and Definition of Infrastructure Projects
Mohamed Al-Ali, Michael Emes and Raúl Leal, University College London, UK
ID 164  Appointment Scheduling Optimization for Specialist Outpatient Services
C. K. M. Lee, KKH Ng and M. C. Cheng, The Hong Kong Polytechnic University, China

3rd Place
ID 324  Discrete Event Simulation for Chemotherapy Patient Flows
Dang Khoi Pham and Christine Di Martinelly, IESEG School of Management, France
Alejandra Duenas, ICN Business School (CEREFIGE), France
ID 400  Thermography Monitoring and Diagnostic Tool in Predictive Maintenance
Amal Boukili and Mohammed Mesrar, Sidi Mohamed Ben Abdellah University, Fez, Morocco

Undergraduate Research Competition Awards

1st Place
ID 369  Dynamic Programming Approach to Unit Commitment Problem for Kuwait Power Generations
Nadine Awadah, Rawan AlShikh Ali, Shaikha AlBajan, Ghaila Al-Qallaf, Muneerah Al-Hassawi, and Suat Kasap, American University of the Middle East – AUM, Eqaila, Kuwait

High School and Middle School STEM Presentation Competition Awards

1st Place
ID 382  An Alerting Device to Prevent Death Risk in Dential Treatment
Kanticha Hothai, Thanadon Pitakwarin and Yupaporn Premkamol, Princess Chulabhorn’s College Chonburi, Banbuang, Chonburi, Thailand
High School and Middle School STEM Poster Competition Awards

1st Place
ID 405  Developing of an Open Source Eletrocardiogram Prototype
Suppakit Chantarasittipol and Thanut Bumrungsawat, Princess Chulabhorn's College Chonburi, Thailand

2nd Place
ID 375  Developing Thai and English Braille Fonts by using FontForge.
Sathaphon Cheratummakool and Punthat Siriwan, Princess Chulabhorn's College Chonburi, Thailand

Middle School STEM Competition Awards

1st Place
Garbage to Gold: A concept of using processed wastes to process waste
Kaustabh Ghamande, Manse Ghamande and Sacchidanand Gogawale, India

Simulation and PLM Competition Awards

1st Place
ID 395  Digital Human Modeling and Simulation to Correct Work Postures in Dentistry
Danah Ahmad, Sarah Hashem, Sarah AlAttal, Deema AlQemlas, Kareem Abbady, and Suat Kasap, American University of the Middle East – AUM, Egaila, Kuwait

2nd Place
ID 011  A System Dynamics Approach to Analysis of Development Policies in Occupational Health and Safety Management System
Mahdi Bastan, Leila Azizi and Alimohammad Ahmadvand, University of Eynakey, Iran

Best Track Papers Awards

Big Data and Analytics
ID 526  Application of Big Data Analytics for Recommending V93K Tester Platform Focus Area with High Test Time and Index Time Deviation
Romero Sunshine Ander, Koh Mei Hwei and Tang Ho Hwa @Howard Infineon Technologies Asia Pacific Pte. Ltd.
Singapore

Business Management
ID 124  The Influence of Leadership on Innovation: a Case Study in the Telecommunications Industry in South Africa
Pascalis Adams, Hannelie Nel and Annlizé Marnewick
Postgraduate School of Engineering Management
Faculty of Engineering and the Built Environment
University of Johannesburg, Auckland Park, Johannesburg, South Africa

ID 320: Implications of Human Resource Management against Organizational Culture, Work Motivation, Job Satisfaction and Employee Performance at State Own Enterprise Hospitals in Indonesia (Empirical Study on the 5 Biggest Pertamina Hospitals in Indonesia)
Uli Wildan Nuryanto, Asep Saefudin and Pantja Djati
University Mercubuana, Jakarta, Indonesia

Decision Sciences
ID 325  Desirability Function Approach for Selection of Facility Location: A Case Study
Prasad Karande
Department of Mechanical Engineering,
Veermata Jijabai Technological Institute,
Mumbai, India
Prasenjit Chatterjee
Department of Mechanical Engineering,
MCKV Institute of Engineering, Howrah, India
ID 546 Comparison of Pension Fund Calculations Using Actuarial Methods of Projected Unit Credit and Pay-As-You-Go
Sukono, Mochamad Suyudi, Widya Novita Sari
Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Yuyun Hidayat
Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
Abdul Talib Bon
Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

Energy and Resource Efficiency
ID 188 Quantifying the Life Cycle Cost of a High Pressure Grinding Roll in a Mineral Processing Plant
Njabulo Buthelezi, Annlizé Marnewick and Hannelie Nel
Faculty of Engineering and Built Environment
University of Johannesburg, South Africa

Facilities Planning and Management
ID 112 Corrosion Management: A Case Study of South African Oil and Gas Company
Linda Njomane and Arnesh Telukdarie
University of Johannesburg, South Africa

Healthcare
ID 494 Vehicle Routing Problem for Blood Mobile Collection System with Stochastic Supply
Andrea Pirabán Ramírez
Logistic Systems Research Group, School of Engineering
Universidad de La Sabana
Campus Puente del Común, Km. 7, Autopista Norte de Bogotá. Chía, Cundinamarca, Colombia
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Nacima Labadie
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Université de Technologie de Troyes, 12 rue Marie Curie, CS 42060 10004 Troyes Cedex, France
William Javier Guerrero Rueda
Logistic Systems Research Group, School of Engineering
Universidad de La Sabana, Campus Puente del Común, Autopista Norte de Bogotá. Chía, Cundinamarca, Colombia

Human Factors and Ergonomics
ID 404 An Evaluation of Road Hump Markings in Riyadh: Detectability of the Shapes and Colors
Ahmed M. El-Sherbeeny, Woo-Hyung Park, Mohammed A. Alghufaili and Abdulrahman I. Al-Husseini
Industrial Engineering Department, King Saud University, Riyadh, 11421, KSA

Information Technology and Information Systems
ID 73 Fuzzy logic control system in medical field
Brahmi Samira and Zermane Hanane
Batna 2 University, Batna, Algeria

Inventory Management
ID 154 Optimal Vendor-Buyer Cooperative Inventory Policy for Order Size Dependent Transportation Cost
Sharon Orengo, Md. Shahriar J. Hossain and Bhaba R. Sarker
Department of Mechanical and Industrial Engineering
Louisiana State University, Baton Rouge, LA, USA
Lean and Six Sigma
ID 29  Implementation of Lean Manufacturing System to Eliminate Wastes on The Production Process of Line Assembling Electronic Car Components with WRM and VSM Method
Muhammad and Yadrifil
Department of Industrial Engineering, Universitas Indonesia

ID 437 Implementation of Kanban, a Lean tool, In Switchgear Manufacturing Industry – A Case Study Lean and Six Sigma
Shashwat Gawande and J.S Karajgikar
College Of Engineering, Pune
Savitribai Phule Pune University
Pune, Maharashtra, India

Logistics Management
ID 217 The extent of the Urban Freight Transport system on the Road Safety
Nassima LAARAJ, Imane MOUFAD, Fouad JAWAB, Youness Frichi, Kawtar Akoudad and Karim Zehmed
Sidi Mohamed Ben Abdellah University (SMBAU), Fez, Morocco

Manufacturing and Design
ID 559 Overall Efficiency Improvement of a Production Line by Using Yamazumi Chart: A Case Study
Subrata Talapatra, Sharif-Al-Mahmud and Imran Kabir
Department of Industrial Engineering and Management
Khulna University of Engineering and Technology
Khulna 9203, Bangladesh

Manufacturing and SC
ID 427 Investigating Supply Chain Performance and Supply Chain Integration Linkage in Jordanian Manufacturing Firms
Vikas Kumar, Jack Zeidan, Archana Kumari
Bristol Business School
University of the West of England
Bristol, BS16 1QY, UK

Jose Arturo Garza-Reyes
Centre for Supply Chain Improvement
University of Derby, UK

Jiri Tupa
Faculty of Electrical Engineering
University of West Bohemia, Pilsen, Czech Republic

Operations Research
ID 41 A Game Theoretic Approach to Newsvendor Problems with Censored Markovian Demand
Parisa Mansourifard
Ming Hsieh Department of Electrical Engineering
University of Southern California, Los Angeles, California, 90089 USA

Farzaneh Mansourifard
Department of Engineering & Technology, Alzahra University, Tehran, Iran

Bhaskar Krishnamachari
Ming Hsieh Department of Electrical Engineering
University of Southern California, Los Angeles, California, 90089 USA

ID 444 The Impact of Employee Motivation on Productivity at a Water Treatment and Supply’s Laboratory in Johannesburg, South Africa
Sambil Mukwakungu, Jwalane Elizabeth Mpharoane and Charles Mbohwa
Department of Quality and Operations Management, University of Johannesburg

Operations Management and
ID 482 Forecast for products with a short life cycle and their relationship with the supply chain
Operations Management and Operations Research
Andrés Velásquez Contreras
Universidad Autónoma de Colombia

Doctorado en Logística y Dirección de la Cadena de Suministro
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Project Management
ID 117 Real Options for Dealing with Uncertainty in Project Management: A Case Study of Moroccan Infrastructure Project
Jihane Gharib1, Abdelaziz Berrado2, Loubna Benabbou1
1 Team MOAD-SCM, 2 Team AMIPS, Department of Industrial Engineering, Mohamadia School of Engineers, Mohammed V University, Rabat, Morocco

Quality Control and Management
ID 308 Evaluating Measurement System by Gauge Repeatability and Reproducibility
Bahar Sennaroglu
Department of Industrial Engineering
Marmara University, Istanbul, Turkey

Ozlem Yurtsever
Vocational School of Technical Sciences
Marmara University, Istanbul, Turkey

Reliability and Maintenance
ID 279 Modeling and Performance Analysis of a Flexible Manufacturing Cell with Machine Failures
Abdulmajeed Dabwan, Husam Kaid, Abdulrahman M. Al-Ahmari and Tariq Aziz
1College of Engineering, Industrial Engineering Department, King Saud University, Riyadh, Saudi Arabia

Reverse Logistics and Green Systems
ID 473 An Integrated Approach with MOORA, SWARA, and WASPAS Methods for Selection of 3PLSP
Arvind Jayant and Shweta Singh
Department of Mechanical Engineering
Sant Longowal Institute of Engg. & Technology, Longowal, Sangrur, Punjab – 148106 (INDIA)

S. K. Garg
Department of Mechanical Engineering, Delhi Technological University, Delhi-110042 (INDIA)

Service Systems and Service Management
ID 6 A Comparison of Ambulance Location Models in Two Mexican Cases
Jenny Díaz Ramírez, Edgar Granda, Bernardo Villarreal & Gerardo Frutos
Universidad de Monterrey, San Pedro Garza García, N.L., México

Sustainability
ID 289 Resources Allocation: A moderator of the relationship of recycling strategy and organizational performance
Ahmed M. Attia, OPIM Department, Effat University, Jeddah, KSA

Sustainability in Food Supply Chains
ID 421 A Simulation Study of Sustainable Agri-Food Supply Chain
Hagar H. Amer, Noha M. Galal, Khaled S. El-Kilany
Department of Industrial and Management Engineering
Arab Academy for Science, Technology, and Maritime Transport, Abo-Kir Campus, Alexandria, Egypt
Supply Chain Design
ID 430  New Framework to Optimise Leagile Supply Chain Design
Thi Hong Dang Nguyen and Thien-My Dao
Department of Mechanical/ Manufacturing Engineering
École de technologie supérieure, l’Université du Québec, Montréal, QC, Canada

Systems Dynamics
ID 393  Developing a comprehensive and multi-objective mathematical model for university course timetabling problem: a real case study
Amin Jamili, Mahdi Hamid and Hassan Gharoun
School of Industrial Engineering, College of Engineering, University of Tehran, Iran
Roohollah Khoshnoudi, School of Industrial Engineering, Islamic Azad University, South Tehran Branch, Iran

ID 89  Addressing the challenge of lean manufacturing sustainment with system dynamics modeling: a case study on apparel manufacturing in a developing country
Marc Haddad and Rami Otayek
Department of Industrial and Mechanical Engineering, Lebanese American University, Lebanon

Systems Engineering
ID 321  Supervision of an Industrial Process of Milk Production using Fuzzy Logic
Hanane Zermane, Samira Brahmi, Naima Zerari, Rachad Kasmi
Laboratory of Automation and Manufacturing, Industrial Engineering Department, University Batna 2, Algeria

Transport and Traffic Management
ID 70  Increase of fuel efficiency in a passenger road transportation company
Jenny Díaz Ramírez, Laura Armendáriz Santinelli, María Fernanda Salcedo Junco and David Castaños Güitrón
University of Monterrey, Monterrey, Mexico

ID 191  Development of Variable Toll Pricing Strategy to Manage Traffic Congestion at Metro Manila Skyway
Queen Jean Flores, Bien Carlo Realon, Lindley Bacudio and Giselle Joy Esmeria
Industrial Engineering Department, De La Salle University, Manila, Philippines

Waste Management
ID 286  Discharge times of ultrafine and superfine powders in a short riser circulating fluidized bed at different humidification conditions
Emad A. M. Abdelghani
Minia University, Faculty of Engineering, Chemical Eng. Dept., Minia, P.O. Box 61519, Egypt
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