

2018 IEOM Awards - Paris, France

July 26-27, 2018

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, University 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
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- 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 Hosseinkhanli, 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, Mariana Frías Canales, María Teresa Verduzco Garza, Universidad de Monterrey, N.L., Mexico

Fátima Briceño 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, México

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 AlBaghli, Nourah Al Muhaimeed and Sarah Al Awadh, American University of the Middle East, Eqaila, Kuwait

Graduate Student Paper Competition Awards sponsored by EATON Corporation

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 AlBaijan, Ghalia Al-Qallaf, Muneerah Al-Hassawi, and Suat Kasap, American University of the Middle East – AUM, Egaila, Kuwait

High School and Middle School STEM Presentation Competition Awards

1st Place

ID 382 An Alerting Device to Prevent Death Risk in Dental 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 Eyvanekey, 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 ICD-LOSI

Université de Technologie de Troyes

12 rue Marie Curie, CS 42060 10004 Troyes Cedex, France

Nacima Labadie

ICD-LOSI

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 Universidad Popular Autónoma del Estado de Puebla

Diana Sánchez-Partida

Profesora investigadora en el posgrado de Logística y Dirección de la Cadena de Suministro Universidad Popular Autónoma del Estado de Puebla. 21 Sur 1103, Puebla, Puebla 72410, México

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 FailuresAbdulmajeed 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. Gard

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 Yanbu Industrial College, Colleges & Institute Sector, Royal Commission Yanbu, Saudi Arabia (current)

Mohammad W. Hakami

Yanbu Industrial College, Colleges & Institute Sector, Royal Commission Yanbu, Kingdom of Saudi Arabia.