



July 26-27, 2018

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

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
Fatimah 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

Competitions Winners and Best Track Papers – IEOM Paris Conference

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, Ghaila 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

Pascal 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
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Human Factors and Ergonomics

ID 404 An Evaluation of Road Hump Markings in Riyadh: Detectability of the Shapes and Colors

Ahmed M. El-Sherbeeney, Woo-Hyung Park, Mohammed A. Alghufaili and Abdulrahman I. Al-Husseini
Industrial Engineering Department, King Saud University, Riyadh, 11421, KSA

Competitions Winners and Best Track Papers – IEOM Paris Conference

Information Technology and Information Systems

ID 73 Fuzzy logic control system in medical field

Brahmi Samira and Zermame 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
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Jose Arturo Garza-Reyes
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Jiri Tupa
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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

Competitions Winners and Best Track Papers – IEOM Paris Conference

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
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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
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Marmara University, Istanbul, Turkey

Ozlem Yurtsever
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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
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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
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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
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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
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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
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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 Zermame, 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
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