



IEOM Society

"Achieving and Sustaining Operational Excellence"

www.ieomsociety.org

September 9-10, 2015 (Rosen Plaza Hotel)

Undergraduate Student Paper Competition Awards sponsored by Siemens

1st Place: *Increasing Customer Service Level in Distribution Operations*

Ayde Yuriko Venegas, Universidad de Monterrey, San Pedro Garza García, N.L., Mexico

2nd Place: *Characterization of Alzheimer's disease: An Operations Research Approach*

Yazeli Cruz, Yaritza Santiago, Valerie Gonzalez, Clara Isaza and Mauricio Cabrera, University of Puerto Rico – Mayaguez, Puerto Rico, United States

Graduate Student Paper Competition Awards sponsored by Eaton

1st Place: *Threshold Function for the Optimal Stopping of Arithmetic Ornstein-Uhlenbeck Process*

Alon Dourban and Liron Yedidsion, Technion - Israel Institute of Technology, Haifa, Israel

2nd Place: *Centralized Carrier Collaboration and Multi-Hub Location Optimization Using a Genetic Algorithm*

Jose Espiritu and Eduardo Castillo, The University of Texas at El Paso, Texas, United States

3rd Place: *Biofuel Production: Potential Requirements Integration*

Mostafa F. Fawzy, Industrial Engineering, Iowa State University

Paul J. Compton, Industrial, Manufacturing, & Systems Engineering Department, University of Texas at Arlington

3rd Place: *A Bayesian Approach for Early Stage Reliability Prediction of Evolutionary Products*

Mahtab Jahanbani Fard, Industrial & System Eng., Wayne State University

Sattar Ameri, Computer Science, Wayne State University

Ali Zeinal Hamadani, Dept. Industrial Engineering, Isfahan University of Technology, Iran

Research Paper Competition Award

1st Place: *Multi-Objective Supply Chain Network Design under Demand Uncertainty Using Robust Goal Programming Approach*

Raghda Taha, AASTMT, Cairo, Egypt

Yomna Sadek, Amin Elkarbotly and Nahid Afia, ASU, Cairo, Egypt

Khaled Abdallah, AASTMT, Cairo, Egypt

2nd Place: *Design and fabrication of automated loading trolley for missile and canister*

Nazishuddin Quadri Syed College of Engineering Pune, Maharashtra, India

Mohan Khond, College of Engineering Pune, Maharashtra, India

3rd Place: *Simulation Analysis for futuristic manufacturing: A green roadmap*

Amandeep Singh, Deepu Philip, Janakranjan Ramkumar and Suman Samanta, Indian Institute of Technology,

Kanpur, India

Best Poster Award

A case study on the use of practical problem-solving activities to quantitatively improve physics learning in engineering education

Thais Santos, Universidade Paulista (UNIP)/ Universidade São Judas Tadeu (USJT), Brazil

Lilian Pereira, Pedro Ferreira, Iara Lima, Tulio Vivaldini, Alexandre Frugoli and Pedro Frugoli, Universidade Paulista

(UNIP), Brazil

Best Track Papers Awards

Decision Analysis

Improving Obstacle Detection of Automated Guided Vehicles via Analysis of Sonar and Infrared Sensors Output

Ademola Abodunrin and Richard Pitts, Morgan State University, Baltimore, Maryland, USA

Energy Track

Developing a Polynomial-Fourier Series Model for Building's Electricity Consumption Forecasting

Cho-Liang Tsai, Wei Tong Chen and Chin-Shiang Chang, Naitonal Yunlin University of Sci. & Tech, Taiwan

Engineering Education Track

Important Soft Skills for Engineers to Succeed in a Working Environment

Dyah Hening and David Koonce, Ohio University, USA

Engineering Management Track

Performance Evaluation of the Proposed and Existing Waste Management System: Economic Analysis

Swapan Das and Bidyut Kr. Bhattacharyya, Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, India

Healthcare Operations and Services

A System Dynamics Model of Flow of Patients from the ICU through the Step-Down Units

Sankar Sengupta and Ozge Civit, Oakland University, Rochester Michigan, USA

Human Factors and Ergonomics Track

Human Factors Analysis for Railway Coach and Bogie Maintenance Using AHP

Subhash Chandra Panja, Jadavpur University, India

Sanghamitra Poddar and Malay Gangopadhyaya, Institute of Engineering & Management, India

Industry Practices and Solutions

General Satisfaction Index (GSI) Applied to Organizational Climate Researches: A New Approach

Focused on Banking

Carlos Ernani Fries and Guilherme Luz Tortorella, Federal University of Santa Catarina, Florianópolis, Brazil

Logistics Services /Supply Chain

Anticipatory Shipping: A Commercial Application of Pre-positioning

Hao Fu, Department of Industrial Engineering & Operations Research, University of California, Berkeley

Lean and Six Sigma

Application of Six Sigma in Service Contracting Company

Ateekh Ur Rehman, Industrial Engineering Department, King Saud University, Riyadh, KSA

Gaps between Psychophysical Demands and Perceived Workload – A Framework for Lean Production System

Guilherme Luz Tortorella and Carlos Ernani Fries, Federal University of Santa Catarina, Brazil

Marcelo Pereira da Silva, Fernando Gonçalves Amaral and Flávio Sanson Fogliatto, Federal University of Rio Grande do Sul, Brazil

Manufacturing and Design

Optimal Hull and Mold Storage in a Lean Boat Manufacturing

Mostafa Ghafoorivarzaneh, Rupy Sawhney, and Tron Dareing, University of Tennessee-Knoxville, USA

Modeling and Simulation

Statistical Analysis of Sliding Resistance of Braided Glass Fiber Reinforced Composite Orthodontic Brackets and Archwires

Sarder E. Sadique, Marshall University, West Virginia, USA

Operations Management

Evacuation of a Highly Congested Urban City: The Case of Beirut

John El Khoury, Lebanese American University, Lebanon

Jean-Paul M. Arnaout, Gust Univ. for Science and Tech. (GUST), Kuwait

Caline El Khoury, Lebanese American University, Lebanon

Operations Research

A new part routing-based decisional algorithm for urgent fabrication through a cost-time model in a flexible manufacturing system

Thien-My Dao, ETS/University of Quebec, Canada

Quality and Reliability

A Bayesian Approach for Early Stage Reliability Prediction of Evolutionary Products

Mahtab Jahanbani Fard, Industrial & System Eng., Wayne State University, USA

Sattar Ameri, Computer Science, Wayne State University, USA

Ali Zeinal Hamadani, Dept. Industrial Engineering, Isfahan Univ. of Tech, Iran

Sustainability

Global Warming Potential and Cost Minimization for the Centralized Carrier Collaboration and Multi-Hub Location Problem

Jose Espiritu, Heidi Taboada, Juan Fernandez, Eduardo Castillo, Claudia Valles, and Ileana Delgado, The University of Texas at El Paso, USA