



IEOM Society International

October – Happenings

2018 Volume 3, Issue 3

Third North American IEOM Washington, DC Conference 2018

The Third North American IEOM Washington, D.C. conference held in late September was an outstanding success. Dr. Devdas Shetty, Dean of Engineering and Applied Sciences, served as a conference chair. More than 50 countries were represented and participated in the event. The conference venue was the University of the District of Columbia (UDC) campus located at 4200 Connecticut Ave NW, Washington, D.C. Final program link: <http://www.ieomsociety.org/program-dc2018.pdf>.

Washington DC conference highlights:

- **The welcome message** from UDC President
- The Global Engineering Education session has 30 distinguished speakers who will focus on the readiness of engineering graduates around the world.
- Lean Six Sigma Green Belt Workshop is conducted by Dr. Saso from Ford Motor Company.
- Proceedings papers and abstracts will be available on this link: <http://ieomsociety.org/dc2018/proceedings/>.
- Poster presenters can display their posters in room Student Center Ballroom.
- Best track papers will be awarded at the conference Award Dinner on Friday evening at Student Center Ballroom. This will include distinguished academic and industry leaders, educators, distinguished service awards, industry solutions awards and global engineering education awards.
- This conference provides an exceptional networking opportunity with participants representing more than 50 countries.

The IEOM Society would like to express our deep appreciation to our sponsors, university partners, organization partners, exhibitors, authors, reviewers, keynote speakers, panelists, track chairs, advisors, the local committee and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming success.

We would also like to thank the students who are participated in this event. Your Conference Organizing Committee hopes you had an enjoyable learning experience at the conference and in the capitol of USA.

Keynote Speakers – 3rd NA Conference

- Ronald Mason, Jr., J.D., President, University of the District of Columbia, Washington, DC
- Dr. Bruce Kramer, Senior Advisor, NSF
- John H. James, Jr., Executive Director, Missile Defense Agency
- Dr. Claudia Rankins, Program Officer, Directorate for Education and Human Resources, NSF
- Dr. Pamela McCauley, Program Director, Innovation Corps-National Innovation Network Sites Program, NSF and Professor and Director of the Ergonomics Laboratory, Department of Industrial Engineering and Management Systems, University of Central Florida
- Dr. Russell R. Barton, Distinguished Professor of Supply Chain and Information Systems, Smeal College of Business, The Pennsylvania State University, University Park and Vice President, INFORMS Sections and Societies
- Dr. Jack L. Price, Director of Research, Naval Surface Warfare Center, USA
- Professor Cecilia Nembou, President and Vice-Chancellor, Divine Word University, Papua New Guinea
- Dr. Jose Luis Guerrero-Cusumano, Associate Professor of Operations and Information Management, McDonough School of Business, Georgetown University, Washington, DC
- Veronica L. Nelson, Executive Director, Advancing Minorities' Interest in Engineering (AMIE), Washington, DC

- Dr. Rupy Sawhney, Professor and Heath Fellow in Business & Engineering, Department of Industrial and Systems Engineering, and Executive Director of Center for Advanced System, Research and Education, University of Knoxville, TN

11th IEOM Global Engineering Education and Industry Solutions Speakers – 3rd NA Conference

- Abdul Mannan, Software Engineer at Social Security Administration and Adjunct Professor, Department of Computer Science and Information Technology (CSIT), The University of the District of Columbia, Washington, DC, USA
- Bob Mathur, Sr. Project Manager, Phillips 66 Refinery (Exxon), Linden, NJ 07036, USA
- Dr. Adedeji Badiru, Dean, Graduate School of Engineering and Management, Air Force Institute of Technology, Wright-Patterson AFB, OH
- Dr. Amir Hessami, Civil and Architectural Engineering Department, Texas A&M University–Kingsville, Kingsville, TX, USA
- Dr. Anjum Ali, National University of Computer and Emerging Sciences, Lahore, Pakistan
- Dr. Bachtiar H. Simamora, Bina Nusantara University, Jakarta, Indonesia
- Dr. Bolanle Tolulope Abe, Tshwane University of Technology, eMalahleni campus, South Africa
- Dr. Esther T. Ososanya, Professor and Chair, University of the District of Columbia, Washington DC
- Dr. Faisal Aqlan, Assistant Professor of Industrial Engineering and Master of Manufacturing Management (MMM) , Penn State Behrend, Erie, Pennsylvania, USA
- Dr. Fay Cobb Payton, Information Systems/Technology, North Carolina State University, Raleigh, NC, USA and Program Director, Computer & Network Systems Division,
- Dr. G. Don Taylor, Learning Systems Innovation and Effectiveness, Virginia Tech, Blacksburg, VA, USA
- Dr. Jacqueline Chestnut , North Carolina A&T State University
- Dr. Joon-Yeoul Oh, Mechanical and Industrial Engineering Department, Texas A&M University–Kingsville, Kingsville, TX, USA
- Dr. Lina Nataly Alvarado , Department of Industrial Engineering, University of Cundinamarca, Bogotá D.C – Soacha, Colombia
- Dr. Michael S. Mkwanzazi, University of Johannesburg, South Africa
- Dr. Mohammad A Rahman, Manufacturing and Construction Management, Central Connecticut State University, New Britain, CT, USA
- Dr. Mustafa Ilhan Akbas, Department of Computer Science, Florida Polytechnic University, Lakeland, FL, USA
- Dr. Oscar A. Vasquez-Bernal, Universidad Nacional Abierta y a Distancia, Bogotá Colombia
- Dr. Pradeep K. Behera, University of the District of Columbia
- Dr. Pule Kholopane, University of Johannesburg, South Africa
- Dr. Rezg Nidhal, University of Lorraine, Metz, France
- Dr. Rumi Tobita, Associate Professor, Department of Innovative Engineering, Ashikaga University, Ashikaga, Tochigi, Japan
- Dr. Said Kafumbe, Higher Colleges of Technology, Abu Dhabi, UAE
- Dr. Saso Krstovski, MBB, Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant, Ford Motor Company, Michigan, USA
- Dr. Sergey Ivanov, Professor, Department of Management, School of Business and Public Administration, University of the District of Columbia, Washington DC, USA
- Dr. Shahram Taj, Florida Polytechnic University, Lakeland, FL, USA
- Dr. Tonya Smith-Jackson, Dept. of Industrial and Systems Engineering, North Carolina Agricultural & Technical State University, Greensboro, NC, USA and Program Director (rotator) at the National Science Foundation (NSF/CISE Directorate/IIS Division)
- Foad Hosseinkhanli, Director of Quality Assurance, Performance and Business Improvement, Amor Health Services, Inc., Brownsville, Texas, USA
- Hemendra Nath Roy, Supply Chain Superintendent, Manufacturing and Apparel Sourcing, Gildan, Baridhara Diplomatic Zone, Gulshan 2, Dhaka -1212, Bangladesh
- Jefia Abigail Oghenevwegba , Covenant University, Ogun State, Nigeria
- John Namey, Jefferson Area Junior-Senior High School, Jefferson, OH 44047, USA
- Prof. Clinton Aigbavboa, Vice Dean: Postgraduate Studies, Research and Innovation, Head: Sustainable Human Settlement and Construction Research Centre, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, RSA
- Prof. Dr. Md. Nurul Absar Chowdhury, Islamic University of Technology (IUT), Board Bazar, Gazipur, Bangladesh
- Professor Bharat Kolluri, Barney School of Business, University of Hartford

- Professor Donald M. Reimer, Director of Membership and Chapter Development – IEOM Society, President, The Small Business Strategy Group, Detroit, Michigan, USA, and Adjunct Faculty at Lawrence Technological University, Southfield, Michigan, USA
- Professor James Peta Jr, Barney School of Business, University of Hartford
- Professor Lillian Kamal, Barney School of Business, University of Hartford
- Professor Sarma Yadavalli, University of Pretoria, South Africa
- Scott McCurdy, Cochran Junior-Senior High School, Cochran, GA

University Partners

- Center for Advanced Systems Research and Education (CASRE), Tickle College of Engineering, The University of Tennessee, Knoxville
- Eastern Michigan University
- Florida Polytechnic University
- Kettering University
- Lawrence Technological University, Michigan, USA
- North Carolina A&T State University
- Oakland University, Rochester, Michigan
- Rutgers, The State University of New Jersey
- University of Eyvanekey, Iran
- University of Michigan, Dearborn
- University of New Brunswick at Fredericton, Canada
- University of Rosario, Bogota, Colombia
- University of the District of Columbia
- Wayne State University, Michigan

Corporate Partners

- Eaton Corporation
- SIEMENS

Organization Partners

- African Engineering Education Association (AEEA)
- BKSTI: Agency for Cooperation of Higher Education of Industrial Engineering, Indonesia
- Indian Institute of Industrial Engineering (IIIE)
- International Federation of Engineering Education Societies (IFEES)
- Pakistan Society of Industrial Engineering (PSIE)
- Society of Cost and Quality Engineers (SCQE)

Sep 17, 2018

Ninth IEOM Bangkok Conference Submission Extended to September 30, 2018, Ninth International Conference on Industrial Engineering and Operations Management, Bangkok, Thailand, March 5-7, 2019, Venue: JW Marriott Bangkok: <http://ieomsociety.org/ieom2019/>

Sep 12, 2018

IEOM Botswana Chapter Established: <http://ieomsociety.org/ieom/botswana/>

South African Conference in October 30 – Nov. 2, 2018 is well under way.

2018 IEOM NA Awards – Washington, DC, USA - September 28, 2018

IEOM Distinguished STEM Leadership Award

Ronald Mason, Jr., J.D.

President,

The University of the District of Columbia, Washington D.C.

Dr. Mohammed Aleissa

Cultural Attaché

Saudi Arabian Cultural Mission, Fairfax, VA 22031

IEOM Distinguished Achievement Awards

Dr. Bruce Kramer
Senior Advisor
NSF

IEOM Distinguished Educator Awards

Dr. Russell R. Barton
Distinguished Professor of Supply Chain and Information Systems , Smeal College of Business
The Pennsylvania State University, University Park, PA, USA

Dr. Tonya Smith-Jackson
Professor, Department of Industrial and Systems Engineering
North Carolina Agricultural and Technical State University
Greensboro, NC, USA

Dr. Mohsen A. Jafari
Professor and Department Chair
Department of Industrial and Systems Engineering, School of Engineering
Rutgers, The State University of New Jersey, Piscataway, NJ 08854

Dr. Jose Luis Guerrero-Cusumano
Associate Professor of Operations and Information Management, McDonough School of Business
Georgetown University, Washington D.C., USA

Dr. Rupy Sawhney
Professor and Heath Fellow in Business & Engineering
Department of Industrial and Systems Engineering
Executive Director of CASRE (Center for Advanced System, Research and Education)
University of Knoxville, Knoxville, Tennessee, USA

IEOM Distinguished Industry Awards

Mr. Raj Batra
President, Siemens USA Digital Factory Division
Atlanta, GA, USA

John H. James, Jr.
Executive Director
Missile Defense Agency

IEOM Research Leadership Award

Dr. Jack L. Price
Director of Research
Naval Surface Warfare Center, USA

IEOM STEM Ambassador Awards

Dr. Claudia Rankins
Program Officer, Directorate for Education and Human Resources
NSF

Dr. Brandi Toliver
Academic Program Director
National Institute of Science and Technology (NIST), USA

Derek W. McGowan
Diversity Program Manager-Higher Education Institutions, Global Diversity & Inclusion
Lockheed Martin Corporation, USA

IEOM Diversity Award**Veronica L. Nelson**

Executive Director

Advancing Minorities' Interest in Engineering (AMIE), Washington D.C.

Andrew Swiecki

Senior Director of Strategy

Siemens PLM Software, Livonia, MI

IEOM Young Researcher Award**Faisal Aqlan, Ph.D.**

Certified Lean Silver (IBM) and Six Sigma Black Belt (ASQ)

PI & Director: NSF RET Site in Manufacturing Simulation and Automation

Founder & Coordinator: System Simulation and Automation Lab

Assistant Professor of Industrial Engineering and Assistant Prof. of Master of Manufacturing Management

Penn State University, The Behrend College

5101 Jordan Road, Erie, PA 16565 USA

IEOM Woman in Industry and Academia Award**Dr. Pamela McCauley**

Program Director - Innovation Corps- National Innovation Network Sites Program (I-Corps Sites)

National Science Foundation

Professor and Director of the Ergonomics Laboratory, Dept. of Industrial Engineering and Management Systems

University of Central Florida

Professor Cecilia Nembou

President and Vice-Chancellor

Divine Word University

Papua New Guinea

IEOM Teaching Excellence Awards**Dr. Gursel Suer**

Industrial and Systems Engineering

Ohio University

Athens, Ohio

Prof. Clinton Aigbavboa., Ph.D.

Vice Dean: Postgraduate Studies, Research and Innovation

Head: Sustainable Human Settlement and Construction Research Centre

Faculty of Engineering and the Built Environment

University of Johannesburg, Johannesburg, RSA

Editor - Journal of Construction Project Management and Innovation (JCPMI)

IEOM Distinguished Service Awards**Dr. Devdas Shetty**

Dean, School of Engineering and Applied Sciences

University of the District of Columbia, Washington, DC

IEOM Outstanding Service Awards**Dr. Pule Kholopane**

Associate Professor

Head of Department: Quality and Operations Management

Department of Quality and Operations Management

Faculty of Engineering and the Built Environment

University of Johannesburg

Johannesburg, South Africa

Mohammed Mannan

Software Engineer, Social Security Administration
Adjunct Professor, University of the District of Columbia, Washington, DC

Ms. Ann Lankford

School of Engineering and Applied Sciences
University of the District of Columbia, Washington, DC

IEOM Special Recognition Awards**Dr. Abby Ilumoka Nwabizour**

Program Director, Engineering Education
NSF

Dr. Mohamad Sepehri

Dean, School of Business and Public Administration
UDC

IEOM STEM HS and Middle School Awards**ID 037 An Alerting Device to Prevent Death Risk in Dental Treatment**

Kanticha Hothai and Thanadon Pitakwarin, Princess Chulabhorn's College Chonburi, Thailand

ID 125 Apply Statistics on Playing Strategic Video Games

Mason Chen, Stanford Online High School, California, United States

ID 144 Deceptively Sweet: Finding Hidden Sugars (Sucrose and Glucose)

Akshara Karthik and Priya Shah, Orchard Lake Middle School, West Bloomfield, MI, USA

ID 184 Electromagnetic Train

Rohan Pavuluri, Schroeder Elementary School, Troy, MI, United States

ID 423 Preparation and Evaluation of Carbon Synthesized by Chemical Activation of Mango Seeds

Alicia Chen and Emily Chen, Dublin High School, Dublin, CA 94568, USA

- Talhah Rahman Huda, Thomas A. Edison High School, Alexandria, Virginia
- Raffu Khondaker, Thomas Jefferson High School for Science and Technology, Alexandria, VA
- Ramisa Resha, Robert Lee High School, Springfield, VA
- Muhtasim Hossain, 7th grade, Irving Middle School, Springfield, VA
- Noor Ruman, Oakton High School, Virginia, VA
- Arham Ahammad, 8th Grade, Glasgow Middle School, Falls Church, VA
- Anika Ahammad, 10th grade, Justice High School, Falls Church, VA
- Mahir Mannan, 10th Grade, Robert Lee High School, VA
- Afifa Mannan, 6th grade, Washington International Academy, VA
- Nabila Ava, 6th Grade, Washington international Academy, VA

Undergraduate Student Paper Competition Awards Sponsored by SIEMENS**1st Place**

Dalal Al-Munayes, Fatima Al-Mahdi, Sarah Bahman, Sara Sadeq, Shahad Bojbara and Lawrence Al-Fandi
Industrial Engineering Department, American University of the Middle East, Kuwait

“Reduction of Patient Prolong Length of Stay in the ED using Lean Six Sigma”

Graduate Student Paper Competition Awards sponsored by EATON Corporation**1st Place**

André Mendes de Carvalho, University of Minho, Guimarães, Portugal and Sociotechnical Systems Research
Center, Massachusetts Institute of Technology, MA, United States

Paulo Sampaio, University of Minho, Guimarães, Portugal

Eric Rebertisch, Sociotechnical Systems Research Center, Massachusetts Institute of Technology, Cambridge,
MA, USA

“Business Excellence Models: Supporting the Cultural Perspective to Operationalize Excellence Sustainability in Manufacturing Organizations”**2nd Place**

Meshal ALOtaibi, Architectural Engineer, and PhD candidate, University of Kansas, Lawrence, KS, USA
“The Effect of Ceiling Height on the Performance of Air-Distribution Systems Based on thermal Comfort and it’s Environmental Effects”

Muztoba Ahmad Khan and Thorsten Wuest, West Virginia University, Morgantown, WV, USA
“Mapping of PSS Research: A Bibliometric Analysis”

3rd Place

Seyedmohammad Salehi, University of Delaware, Newark, USA
Maghsoud Amiri, Allameh Tabataba’i University, Tehran, Iran
Saeed Ramezanzadeh, Amin Olum-e-entezami University, Tehran, Iran
Mohammadali Abedini, University of Tasmania, Launceston, Tasmania 7250, Australia
“An Enhanced VIKOR MCDM Model to Solve Complex and Multi-Objective Optimization Problems”

César Alanís Díaz, Edgar Marco Aurelio Granda Gutiérrez and Mtro. Refugio Chávez Hernández, Universidad de Monterrey, Mexico
“Model to Define the Optimal Production Program in a Food Processor SME Optimizing Human and Economic Resources”

Senior Design Project Competition Awards**1st Place**

Anfal Al-Safar, Eman Al-Khayat, Hajar Al-Shawaf, Hawra Othman, Shahad Al-Shawaf, and Magdy Helal, Industrial Engineering Department, American University of the Middle East, Kuwait
“Solving the School Bus Routing Problem at a Local School in Kuwait”

2nd Place

Pradeep K Behera, Professor and Chair, Department of Civil Engineering, School of Engineering and Applied Sciences, University of the District of Columbia, Washington DC, USA
“Can Senior Capstone Project Course provide Real-world Work Experience?”

Doctoral Dissertation Awards

Vahab Vahdat, Department of Mechanical and Industrial Engineering, Northeastern University, MA, USA
“Simulation and Optimization Methods Applied to Outpatient Health Center Operations”

Best Poster Awards**1st Place**

Charles Mutigwe and Myra Zhinin, Western New England University, Springfield, Massachusetts, USA
“The Case for Unified Query Language”

2nd Place

Argelia Vargas-Moreno, Leonardo Gabriel Hernández-Landa, Elva Patricia Puente-Aguilar and Patricia Gómez-Fuentes
Industrial Engineering and Management Area, Facultad de Ciencias Químicas, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, NL. 66451, México
“Application of Open Jackson Networks for Time and Costs Reduction in the Quality Control Process in an Electronic Assembler”

Javel Wilson, University of the District of Columbia (UDC), USA
“Metal Matrix Nanocomposite Powder for Laser Powder Bed Fusion”

Olaseni Adeniji, University of the District of Columbia (UDC), USA
“Application of SWIR Camer in the monitoring and Control of Overhang Quality in Selection Melting”

3rd Place

Guelmani-Hesnaoui Naima, Houamdi-Idir Ouiza, Mellak Abderrahmane, and El Heit Kaddour, Mouloud Mammeri University, Algeria
“Study of the Impact of Vegetation management on Microclimatic Dynamics and Grape Quality”

Undergraduate Research Competition Awards**1st Place**

Anwar Ebrahim, Fatemah AbdulRahman, Fatemah Mohammad, Hala Alhouti, Hessah Alrabiah, and Rifat Ozdemir
Industrial Engineering Department, American University of the Middle East (AUM), Kuwait

“A Two Stage Risk Assessment and Hazard Prevention Approach: A Case Study for Noise Hazard in Oil Industry”

2nd Place

Paola Puentes Vera, Astrid Gándara Martínez and Jenny Díaz Ramírez, Universidad de Monterrey, Nuevo Leon, Mexico

“Improvement of Material Supply System through Kitting Concept and IT Solutions”

Lean Six Sigma Competition Award

Nourhan Hassan, Lina Hamdan, Noor Khourshed and Walid Smew, Industrial Engineering Department, American University of the Middle East (AUM), Kuwait

“Utilization Improvement of Insulation Material Using Lean Six Sigma in Duct Manufacturing Company in Kuwait”

Best Track Papers Awards**Case Study**

ID 210 An Analysis of Cargo Release Services with Process Mining: A Case Study in a Logistics Company

Sagit Kedem-Yemini, Naor S. Mamon and Gal Mashiah, Logistics Department, Sapir Academic College, Sderot, Israel

Case Studies

ID 237 Supply Model Design for a Dairy Company: A Case Study

Carlos A. Machado Orges, Diego J. Haro Morales, Leandro L. Lorente Leyva, Yackleem Montero Santos and Israel D. Herrera Granda, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador
Ivet Challenger Pérez, Facultad de Ingeniería Informática y Matemática, Universidad de Holguín, Cuba

Data Analytics

ID 35 Using Categorical Variables in Linear Models

Jolene Liu, Sarah Kim, and Cesar Acosta-Mejia, Daniel J. Epstein Department of Industrial & Systems Engineering, University of Southern California, Los Angeles, CA 90089, USA

Design and Analysis

ID 192 The Influence of Consumer Behavior on Purchase Decision on Regression-based Model: Application to Portable Kitchen

Muhammad Reza Do. Bagus, Information System Department, School of Information Management and Computer Tidore Mandiri (STMIK Tidore Mandiri), North Mollucas Province, 97812, Indonesia

E-Business/E-Service

ID 94 Alternative Digital Packaging Design Strategies to gain visibility in E-tailing

Leila Denmamode, School of Innovative Technologies and Engineering, Department of Creative Arts, Film and Media Technologies, University of Technology, Mauritius, La Tour Koenig, Mauritius.

June Ngo Siok Kheng, Faculty of Applied and Creative Arts, Universiti Malaysia Sarawak, Malaysia

Energy

ID 145 Rice Husk Briquette with Shredded Paper Additives: a Potential Energy Source at par with the Progress of Bangladesh

Muhammad Mahbubul Alam, Professor, Mechanical Engineering Department, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Manik Miah, Assistant Engineer, Titas Gas Transmission and Distribution Company Limited, Dhaka, Bangladesh

Engineering Education

ID 214 Equipping graduates for the future: The need for higher institutions to collaborate

John Aliu, Dept. of Civil Engineering, Faculty of Engineering and the Built Environment, University of Johannesburg, RSA

Clinton Aigbavboa, Sustainable Human Settlement and Construction Research Centre, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa.

Undergraduate Engineering Education**ID 223: Design of an Architectural Traceability as an Observatory for Decision Making in Undergraduate Curriculums**

Lina Nataly Alvarado Riaño, and Jefferson Aldamer Rubiano Forero, Department of Industrial Engineering, Investigative group of Industrial and Environmental Processes (GIPIA), University of Cundinamarca, Bogotá D.C - Soacha, Colombia

ID 286 Empowering Undergraduate Student Researchers Through Inclusive Research Learning Systems

Tonya Smith-Jackson, Department of Industrial and Systems Engineering, North Carolina Agricultural and Technical State University, Greensboro, NC 27411, USA
G. Don Taylor, Learning Systems Innovation and Effectiveness, Virginia Tech, Blacksburg, VA 24061, USA

Engineering Management**ID 426 Investigating the relationship between Lean Six Sigma and Innovation**

Mohamed Alblooshia and Mohammad Shamsuzzamanab, Sustainable Engineering Asset Management (SEAM) Research Group, Department of Industrial Engineering and Engineering Management, University of Sharjah, UAE

Environmental Engineering**ID 205 Design of a Lab-scale Anaerobic Bioreactor for Renewable Energy from Municipal Solid Waste**

Leandro L. Lorente Leyva, Yakcleem Montero Santos, Israel D. Herrera Granda, Carlos A. Machado Orges, Santiago M. Vacas Palacios and Robert M. Valencia Chapi, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador

Financial Engineering**ID 5 Mixtures-based Value at Risk Estimates of Financial Stocks**

Raven Castro, Shengyu Huang, Jolene Liu, and Cesar Acosta-Mejia, Daniel J. Epstein Department of Industrial & Systems Engineering, University of Southern California, Los Angeles, CA 90089, USA
Rafael Blay, Department of Computer Science, University of Southern California, Los Angeles, CA 90089, USA

Healthcare**ID 82 Multiple Criteria Master Surgical Scheduling Problem: A Case Study**

Amirhosein Mohsenigol, Dept. of Industrial Engineering, Mazandaran University of Science and Technology, Mazandaran, Iran

Ashkan Mozdgir, Department of Industrial Engineering, K. N. Toosi University of Technology, Tehran, Iran
Shabnam Bozorgzadeh, Dept. of Obstetrics and Gynecology, Iran University of Medical Sciences, Tehran, Iran
Azin Samiei, Bachelor of Industrial engineering, West Tehran Islamic Azad University, Tehran, Iran
Behnood Ghasriani, Department of management, Islamic Azad University Central Tehran Branch, Tehran, Iran

Human Factors**ID 282 Ergonomic Assessment of Snow Shovels Using Digital Human Modeling**

Carly Wolkiewicz, Katherine Collins and Faisal Aqlan, Industrial Engineering Department, Penn State Erie, The Behrend College, Erie, PA 16563, USA
Osama T. Al Meanazel, The Hashemite University, Zarqa 13115, Jordan

ID 346 Intertwining Trilogy Premises of Hope, Social Support and Trust Relieving Work Stress Influencing to Well-being

Hwi-Chie Ho, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

Information system and management:**ID 198 How Much Demographically Diversified Are They in Making Decision to Invest in ICT Companies? A Study on Two Million Bangladeshi Investors**

Md. Rakibul Hasan and Asif Imtiaz, Lecturer, Department of Management Information Systems, Faculty of Business Studies, University of Dhaka, Dhaka – 1000, Bangladesh

Md. Shakil Ahmad, Department Head- Advisory Services, United Finance Limited, Dhaka-1000

Mina Mahbub Hossain, Assistant Professor, Dept. of Tourism and Hospitality Management, University of Dhaka, Bangladesh

Inventory**ID 401 A multi-product multi-supplier combined inventory and suppliers' selection model**

Mohamed Grida and Boshra Taha, Industrial Engineering Department, Zagazig University, Zagazig, Egypt
Abdel Nasser Zaied, Faculty of Computer and Informatics, Zagazig University, Zagazig, Egypt

Lean**ID 265 Cost Based Overall Equipment Effectiveness Analysis via Application of Value Stream Mapping**

Sadaf Zahoor and Walid Abdul-Kader, Department of Mechanical, Automotive, and Materials Engineering, University of Windsor, Windsor, N9B 3P4, Canada

Hamza Ijaz, Atif Qayyum Khan, Zeeshan Saeed and Shoaib Muzaffar, Department of Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan

ID 283 Analysis of Production Layout Alternatives Using Lean Techniques and Monte Carlo Simulation

David Henry, David Shindlecker and Faisal Aqlan, Master of Manufacturing Management (MMM) Program Penn State Erie, The Behrend College, Erie, PA 16563, USA

Logistics**ID 400 Modeling Prepositioning of Resources for Humanitarian Logistics**

Shaligram Pokharel, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

Jose Holguin-Veras, Department of Civil and Environmental Engineering, Rensselaer Polytechnic Institute, Troy, NY, USA

ID 271 Reliable capacitated single allocation hub network design under hub failure: A scenario-based approach

Zahra Booyavi, Department of Industrial Engineering, Science and Culture University, Tehran, Iran

Hamidreza Eskandari, Faculty of Management and Economics, Tarbiat Modares University, Tehran, Iran

Ehsan Teymourian, Department of Management Science and Information Systems, Rutgers, the state university of New Jersey, Newark & New Brunswick, USA

Maintenance**ID 112 Availability Based Comparison of Fixed Age and Life Cycle Cost Replacement Maintenance**

Paul Amaechi Ozor and Charles Mbohwa, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

Manufacturing**ID 260 Effect of FSW on the Mechanical Properties and Microstructure of 6082-T6 AA**

Stephen Akinlabi, Department of Mechanical and Industrial Engineering, University of Johannesburg, South Africa

Samuel Fatoba, Esther Akinlabi, Department of Mechanical Engineering Science, University of Johannesburg, South Africa

Modeling and Simulation**ID 77 Digital Predistortion Modeling in DSL Systems Using Volterra Series and Prediction Error Method**

Emad Abd-Elrady, Abu Dhabi Women's College, Higher Colleges of Technology, Abu Dhabi, UAE.

Operations Management**ID 228 Batch Sizing in Sustainable Production Systems with Imperfect Quality**

Farnaz Ghazi Nezami, Department of Industrial and Manufacturing Engineering, Kettering University, Flint, MI 48504, USA

Mojtaba Heydar, School of Electrical Engineering and Computing, University of Newcastle, Callaghan, NSW 2308, Australia

ID 156 Integrating Lean, Green, and Resilience Criteria in Designing a Sustainable Food Supply Chain

Kanchan Das, College of Engineering and Technology, East Carolina University, Greenville, NC 27858, USA

ID 335 Warehouse Storage Assignment by Genetic Algorithm with Multi-objectives

Chi-Bin Cheng & Yu-Chi Weng, Dept. of Information Management, Tamkang University, New Taipei City, Taiwan

Operations Research**ID 216 Application of open Jackson networks for time and costs reduction in the quality control process in an electronic assembler**

Argelia Vargas-Moreno, Leonardo Gabriel Hernández-Landa, Elva Patricia Puente-Aguilar and Patricia Gómez-Fuentes, Industrial Engineering and Management Area, Facultad de Ciencias Químicas, Universidad Autónoma de

Nuevo León, San Nicolás de los Garza, NL. 66451, México

ID 247 Resource Scheduling Algorithm for Maintenance Planning

Sarma Yadavalli, Rikus Kellerman and Kirsten Young, Department of Industrial Engineering, University of Pretoria

166 Large Neighborhood Search for Outbound Truck Scheduling Problem in a Cross-docking

Warisa Wisittipanich and Nattapong Kamsura Department of Industrial Engineering Excellence Center in Logistics and Supply Chain Management Faculty of Engineering, Chiang Mai University

Production planning and management**ID 150 Identification and Evaluation of Critical Success Factors for Construction Projects**

Antonio Carlos Pacagnella Junior, School of Applied Sciences-FCA, State University of Campinas – UNICAMP, Limeira, BRA

Marcelo Sales Paschoal, Methodist University of Piracicaba, Santa Bárbara D'Oeste - BRA

Ornella Pacifico, Universidade Estácio de Sá, Ribeirão Preto – BRA

169 An Optimization Method for Sustainable Multi-level Capacitated Production Planning with Carbon Emissions

Tao Wu, Ameya Dhaygude, Barnali Bhattacharjee Advanced Analytics Department, Dow Chemical, 48642 Midland, MI, USA

Project Management**Identification and Evaluation of Critical Success Factors for Construction Projects**

Antonio Carlos Pacagnella Junior, School of Applied Sciences – FCA, State University of Campinas, Limeira, BRA

Marcelo Sales Paschoal, Methodist University of Piracicaba, Santa Bárbara D'Oeste - BRA

Ornella Pacifico, Universidade Estácio de Sá, Ribeirão Preto – BRA

Supply Chain**ID 151 Block chain Technology for Efficient Management of Supply Chain**

Mohamed Awwad, Sohith Reddy Kalluru, Varun Kazhana Airpulli, Madhubala Santosh Zambre, Aniket Marathe and Prasham Jain, Industrial and Systems Engineering Department, University at Buffalo, The State University of New York, Buffalo, USA

Sustainability**ID 220 Sustainable Supply Chain Design using Two-stage Stochastic Modeling under Demand Uncertainty**

Vahab Vahdat, Amir T. Namin, and Rana Azghandi, Department of Mechanical and Industrial Engineering, Northeastern University, Boston, MA 02114, USA

Sustainability**ID 457 Evaluating the sustainability of Rea Vaya System through measuring the service quality.**

Omphemetse Lengana, Phindile Mabaso, Bhenkumuzi Mavuso and Sebonkile Thaba, Department of Transport and Supply chain Management, University of Johannesburg, Auckland Park, Johannesburg, RSA

Transportation**ID 399 Ridge Penalization-based Generalized Linear Model (GzLM) for Predicting Risky-Driving Index**

Khadija B. Abdur Rouf, Department of Civil and Architectural Engineering, Qatar University, Doha, Qatar

Galal M. Abdella, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

Khalifa N. Al-Khalifa, Department of Mechanical and Industrial Engineering, Qatar Transportation and Traffic Safety Center (QTTSC), Qatar University, Doha, Qatar

IEOM Society International

21415 Civic Center Dr.

Suite # 217

Southfield, Michigan 48076, USA

Phone: 517-944-0543

Email: info@ieomsociety.org

www.ieomsociety.org