

IEOM Society International

April – Happenings

2018 Volume 3, Issue 1

IEOM 2018 Bandung Conference

The 8th IEOM Annual Conference was held in Bandung, Indonesia at Hilton Hotel during March 6-8, 2018. More than 350 participants attended from more than 50 countries. Prof. Dr. Abdul Hakim Halim from Institut Teknologi Bandung, Indonesia served as conference chair. Dr. Halim and his team provided excellent support for the event. Participants enjoyed the warm hospitality of the Indonesian people. Many of the participant commented on how much they enjoyed the wonderful sightseeing in the Bandung area.

Here are some key conference highlights:

- Pre-conference workshops were conducted: "Assessment and Continuous Quality Improvement of Student Learning by Dr. Abu Masud, Wichita State University (Retired)" and "Leadership in Contemporary Organizations by Dr. Hamid Parsaei, Texas A&M State University – Qatar and College Station".
- The welcome message from ITB.
- The Global Engineering Education session has 24 distinguished speakers will focus on the readiness of engineering graduates around the world.
- Industry Solutions has 19 outstanding speakers.
- Two panel sessions Global Engineering Education and Women in Industry and Academia (WIIA).
- Proceedings papers and abstracts can be found on this link: http://ieomsociety.org/ieom2018/proceedings/.
- The Annual Conference Award Dinner and the IEOM Fellow inauguration ceremony was a great event. This year the awards will include: leadership, distinguished educators, outstanding researchers, women in industry and academia, teaching excellence, distinguished service, industry solutions, innovation, global engineering education, outstanding service, outstanding faculty advisors, outstanding students, outstanding student chapters, outstanding professional chapters, competition winners and best track papers.

Bandung 2018 Keynote Speakers – 8th IEOM Annual Conference

- Dr. Krishnaswami (Hari) Srihari, Executive VP for International Initiatives and Chief Global Officer, Binghamton University – State University of New York
- Prof. Cecilia Nembou, President and Vice-Chancellor, Divine Word University, Papua New Guinea
- Prof. Dr. Ir. Bermawi P. Iskandar, Vice Rector for Academic and Student Affairs, ITB
- Professor Dr. Hui-Ming Wee, Distinguished Professor, Department of Industrial and Systems Engineering, Chung Yuan Christian University (CYCU), Taiwan
- Professor Jose Arturo Garza-Reyes, Professor of Operations Management, Head of the Centre for Supply Chain Improvement, University of Derby, UK
- Dr. Robert de Souza, Executive Director, The Logistics Institute Asia Pacific, Singapore
- Mr. Endang Ahmad Zakaria, President Director, PT Dharma Precision Tools, Indonesia
- Mr. Made Dana Tangkas, Director at Toyota Indonesia Toyota Motor Manufacturing Indonesia and President of Indonesian Automotive Institute

Distinguished Speakers – Global Engineering Education – 8th IEOM Annual Conference

- Dr. Abdelaziz Berrado, The Ecole Mohammadia d'Ingénieurs (EMI), Rabat, Morocco
- Dr. Abu Masud, Wichita State University, Kansas, USA (Retired)
- Dr. Albertus Retnanto, Texas A&M University at Qatar

- Dr. Alina Shamsudin, Universiti Tun Hussein Onn Malaysia
- Dr. Azeanita Suratkon, Universiti Tun Hussein Onn Malaysia
- Dr. Azharul Karim, Queensland University of Technology, Queensland, Australia
- Dr. Chan Chee-Ming, Universiti Tun Hussein Onn Malaysia
- Dr. Eldon Caldwell, University of Costa Rica
- Dr. Hamid Parsaei, Texas A&M University (College Station) and Qatar
- Dr. Ho Hwi Chie, Binus Aso School of Engineering, Bina Nusantara University (Binus), Indonesia
- Dr. Hongyi Sun, City University of Hong Kong, China
- Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia
- Dr. Khristian Edi Nugroho Soebandrija, Bina Nusantara University (Binus), Indonesia
- Dr. Matteo Mario Savino, Professor, University of Sannio, Benevento, Italy
- Dr. Md. Mizanur Rahman, University Technology Malaysia (UTM)
- Dr. Mohammad T. Khasawneh, State University of New York at Binghamton, USA
- Dr. N. Vinod Chowdhary, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India
- Dr. Razali Hassan, Universiti Tun Hussein Onn Malaysia
- Dr. S. C. Naik, National Institute of Technology, Rourkela, Odisha, India
- Dr. Syed Ahmad Helmi Al Haddad, Universiti Teknologi Malaysia, Johor, Malaysia
- Prof. Jedsada Tipmontian, King Mongkut's University of Technology North Bangkok
- Prof. S. P. Mukherjee, Calcutta University, Kolkata, India
- Prof. Shekar Babu, AMRITA School of Business, Bangalore, India
- Professor Rifky Ismail, UNDIP: Diponegoro University, Indonesia

Distinguished Speakers – Industry Solutions – 8th IEOM Annual Conference

- Bob Mathur, Phillips 66 Refinery (Exxon), Linden, NJ, USA
- Dr. Abdul Talib Bon, Universiti Tun Hussein Onn Malaysia
- Dr. Ho Hwi Chie, Bina Nusantara University (Binus), Indonesia
- Dr. Ilham Kissani, Al Akhawayn University, Ifrane, Morocco
- Dr. Indra Gunawan, The University of Adelaide, Australia
- Dr. Kottala Sri Yogi, Institute of Technology, Guru Ghasidas Vishwavidyalya (A Central University), Bilaspur, India
- Dr. Mehran Doulat-Abadi, Centre for Organisational Excellence Research (COER), Massey University,
 Palmerston North, New Zealand
- Dr. Mohamed Osama Grida, Founder & CEO, CAD/CAM/CIM, Cairo, Egypt
- Dr. Murphy Choy, SSON Analytics, Singapore
- Dr. Noha Mostafa, Zagazig University, Egypt
- Dr. Sharan Shetty, Manipal International University, Malaysia
- Dr. Tagwa Ahmed Musa, Sudan University of Science and Technology, Khartoum, Sudan
- Edly Ferdin Ramly, EFR Certification, Johor Bahru, Malaysia
- Farrah "Nix" A. Juban, Intel Corporation, Penang, Malaysia
- Farshid Pirahansiah, MIMOS Berhad, Kuala Lumpur, Malaysia
- Innah Dominique J. Puertollano, AXA Philippines
- Md Kawsar Ali, Comfit Composite Knit LTD, Dhaka, Bangladesh
- Mr. Hood Atan, EFR Certification, Johor Bahru, Malaysia
- Navpreet Singh Chandok, O2i Technologies, India

Student Chapter Activities

- KFUPM has conducted Excel VBA working
- KUET student chapter established

IJIEOM

Journal 1st issue has been published.

2018 IEOM Awards - Bandung, Indonesia

IEOM Fellows

- 1. Dr. Abdul Talib Bon, Universiti Tun Hussein Onn Malaysia
- 2. Dr. Abdur Rahim, University of New Brunswick at Fredericton, Canada
- 3. Dr. Abu Masud, Wichita State University, USA
- 4. Dr. Bernardo Villarreal, Universidad de Monterrey, Mexico
- 5. Dr. Charles Mbohwa, University of Johannesburg, South Africa
- 6. Dr. Eui Park, North Carolina A&T State University, USA
- 7. Dr. Hamid Parsaei, Texas A&M University (College Station) and Texas A&M University Qatar
- 8. Dr. Ilham Kissani, Al Akhawayn University, Morocco
- 9. Dr. Umar Al-Turki, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 10. Mr. Hulas King, SIEMENS PLM, St. Louis Missouri, USA
- 11. Mr. Masaru Tezuka, Hitachi Solutions East Japan, Ltd., Japan
- 12. Professor Don Reimer, Lawrence Technological University, Michigan, USA

IEOM Leadership Award

- 1. Prof. Dr. Ir. Kadarsah Suryadi DEA, Rector, Institut Teknologi Bandung (ITB), Indonesia
- 2. Dr. Krishnaswami (Hari) Srihari, Executive Vice Provost for International Initiatives and Chief Global Officer, Dean and SUNY Distinguished Professor Thomas J. Watson School of Engineering and Applied Science, Binghamton University State University of New York, Binghamton, New York, USA

IEOM Distinguished Educator Awards

- 1. Professor John Pumwa, Professor and Head of Mechanical Engineering Department, PNG University of Technology, Papua New Guinea, Papua New Guinee
- 2. Professor Dr Hui-Ming Wee, Distinguished Professor, Department of Industrial and Systems Engineering, Chaplain, Chung Yuan Christian University (CYCU), Taipei, Taiwan
- 3. Prof. Dr. Noordin bin Mohd. Yusof, Professor, Faculty of Mechanical Engineering, University of Technology, Malaysia, Johor, Malaysia
- Prof. Abdul Hakim Halim, Manufacturing Systems Research Group. Department of Industrial Engineering. Faculty of Industrial Technology. Institut Teknologi Bandung. Bandung 40132, Indonesia
- 5. Prof. Matthias Aroef, Initiator of Industrial Engineering Education in Indonesia,
- 6. Prof. Anang Zaini Gani, Institut Teknologi Bandung (ITB), Indonesia

IEOM Distinguished Industry Awards

- 1. Ir. Made Dana Tangkas Director, PT. Toyota Motor Manufacturing Indonesia
- 2. Edly Ferdin Ramly, Certification Director, EFR Certification, Johor Bahru, Malaysia
- 3. Dr. Robert de Souza, The Logistics Institute Asia Pacific (TLI Asia Pacific), Singapore

IEOM Outstanding Researcher Awards

1. Professor Jose Arturo Garza-Reyes, Ph.D.

Professor of Operations Management

Head of the Centre for Supply Chain Improvement

College of Business, Law and Social Sciences

Derby Management School

University of Derby, United Kingdom (UK)

2. Prof. Dr. Ir. Bermawi P. Iskandar, M.T, M.EngSc

Vice Rector for Academic and Student Affairs

Professor in Reliability and Quality Systems, Manufacturing Systems Research Group, Faculty of Industrial Technology, Institut Teknologi Bandung (ITB), Indonesia

3. Nyoman Pujawan, Ph.D, CSCP

Professor, Department of Industrial Engineering, Sepuluh Nopember Institute of Technology, Kampus ITS Sukolilo, Surabaya 60111, Indonesia

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4. S P Sarmah, Ph.D.

Professor

Department of Industrial and Systems Engineering

Indian Institute of Technology Kharagpur

Kharagpur, West Bengal, India

IEOM Woman in Industry and Academia Award

- Cecilia Nembou, Divine Word University, PNG
- Nicke Widyawati Director of Human Resources, PT. Pertamina, Indonesia
- Dr. Ho Hwi Chie, Dean, Binus Aso School of Engineering, Bina Nusantara University (Binus), Tangerang, Banten, Indonesia

IEOM Teaching Excellence Awards

- Prof. Dradjad Irianto, Manufacturing Systems Research Group, Faculty of Industrial Technology, Institut Teknologi Bandung (ITB), Indonesia
- Dr. Nasr Al Hinai, Mechanical & Industrial Engineering, Sultan Qaboos University, Oman

IEOM Distinguished Service Awards

- Ir. Indracahya Kusumasubrata, IPU Board of Industrial Engineering Chapter, Institute of Indonesian Engineers
- Prof. Abdul Hakim Halim Conference Co-Chair Institut Teknologi Bandung (ITB), Indonesia
- Dr. Wisnu Aribowo Program Co-Chair
- Dr. Linda Zhang, IESEG serving conference chair Paris

IEOM Industry Solutions Awards

- Dr. Ir. Budiman Saleh (PT. PAL) Director, PT. PAL Indonesia
- Rauf Purnama President Director, Bureau Nusantara Kawasan Industri, Indonesia
- Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore

IEOM Innovation Awards

- Italo Gani Cofounder and CEO, Adskom, Indonesia
- IGAA Metha Trisnawati, Cofounder Sayurbox, Indonesia
- Stephanie Jesselyn, CEO and Founder Eragano, Indonesia

IEOM Global Engineering Education Awards

- Dr. TMA Ari Samadhi Indonesia Accreditation Board for Engineering Education, Indonesia
- Dr. Hongyi Sun, Associate Professor, Department of Systems Engineering and Engineering Management, City University of Hong Kong, China
- Dr. Abdelhakim Abdelhadi, Engineering Management Dept. Prince Sultan University, Riyadh, Saudi Arabia
- Prof. S P Mukherjee, Quality Assurance in Engineering Education, India

IEOM Outstanding Service Awards

- Difi Ahmad Johansyah Bank Indonesia, East Java Region, Indonesia
- Agus Tjahyana W. Commissioner, PT. Astra Otoparts, Indonesia
- Mesdin Simarmata Secretary, Indonesian Agency for Creative Economy, Indonesia
- Dr. Mehran Doulat, Senior Research Fellow, Genichi Taguchi Center for Quality and Sustainability, Razak School of Engineering and Advanced Technology, UTM Kuala Lumpur, Malaysia

IEOM Outstanding Faculty Advisor Awards

Dr. Noha Mostafa

Assistant Professor of Industrial Engineering and Management Zagazig University, Egypt

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Dr. Abdulaziz T. Almaktoom Assistant Professor College of Business, Operations and Information Management Department Effat University, Jeddah, Saudi Arabia

Professor Abdul Talib Bon, Ph.D.
Professor of Technology Management
Department of Production and Operations Management
Faculty of Technology Management and Business
Universiti Tun Hussein Onn Malaysia

Dr. Ir. Rahmat Nurcahyo Senior Lecturer Industrial Engineering Department, Faculty of Engineering University of Indonesia, Jakarta, Indonesia

IEOM Outstanding Student Awards

- Azizah Yusof, PhD Research Student in Educational Technology, Department of Educational Sciences, Mathematics and Creative Multimedia, Universiti Teknologi Malaysia (UTM), Johor Bahru, Johor, Malaysia
- Caroline Honjane Asaloei, Institut Teknologi Bandung (ITB), Indonesia
- David Yusuf Prabawa, Institut Teknologi Bandung (ITB), Indonesia
- Santosh Gudagunti, LTU, USA
- Pankil Patel, LTU, USA
- Al-Anoud Bandar Al Saud, Effat University, Saudi Arabia
- Husham Elbaloula, SUST, Sudan
- UTHM: Ms Nazaratul Ainaa Jaafar, UI

Outstanding Student Chapter Award

Gold

- Effat
- KAU
- Qatar University
- UI
- UJ
- UTHM
- Zagazi

Silver

- Guru Nanak Dev Engineering College, Ludhiana, Punjab, India
- Government College University Faisalabad, Pakistan
- UNB
- LTU

Bronze

- Sudan University of Science and Technology, Khartoum
- Khulna University, Bangladesh
- Lorraine University, Metz, France
- SQU

Outstanding Professional Chapter Awards

Gold

- Bangladesh
- France

Silver

Iran

Bronze

Washington DC

Undergraduate Student Paper Competition Awards Sponsored by SIEMENS

1st Place

Adrián Aguado, Sandra Garza and Johana González, Department of Industrial Engineering, Universidad de Monterrey, Mexico and Jenny Díaz-Ramírez, Department of Industrial Engineering, Universidad de Monterrey, Mexico

"Increasing the productivity of health facilities in urban areas in México"

2nd Place

Alec Steven L. Ardan, Mariel Jorinda G. Garcia, Vanessa G. Tenio and Yoshiki B. Kurata Dept. of Industrial Engineering, Technological Institute of the Philippines "Usability Evaluation of an Educational Management System affecting the User – Satisfaction among Tertiary Students in an Undergraduate Engineering Program in the Philippines"

3rd Place

S. Kamalakkannan and Asela K. Kulatunga

Department of Manufacturing & Industrial Engineering, Faculty of Engineering, University of Peradeniya, Sri Lanka

"Life Cycle Assessment of Rice Processing"

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

Aisha A. Al-Hammadi, Amna A. Albaker, Jawaher A. Al-Fakhroo, Galal M. Abdella and Khalifa N. Al-Khalifa Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar

"Optimizing National Resource Usage through the Integration of University Shuttle Service with the Public Rail: The Case Study in Qatar University"

2nd Place

Kenny Ganie and Muhammad A Manan

Department of Petroleum Engineering, Universiti Teknologi Malaysia, UTM Skudai, Johor, Malaysia

Ahmad Kamal Idris

Department of Petroleum Engineering, Universiti Teknologi PETRONAS, Perak, Malaysia "Formulating Lignin Based Surfactant Using Extracted Lignin from Ultrasound-Assisted Technique for Surfactant Flooding"

3rd Place

Muhamad Fariz Failaka and Ali Elkamel

Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

"Optimization of Urea Solution Tie-in System in the Urea Fertilizer Manufacturing"

Senior Design Project Competition Awards 1st Place

Dana Abbas, Mariam Al-Ajmy, Marwa Ashknani, Fatema Bujaber, Maryam Khajah and Suat Kasap Industrial Engineering Department, American University of the Middle East- AUM, Egaila, Kuwait "Developing a Decision Support System for University/ College Selection Problem for Kuwait"

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2nd Place

Jaber Al-Jabri, Mazen Al-Abri and Majid Al-oufi

Sultan Qaboos University, Oman

"Coffee Shop Engineering: An Industrial Engineering Perspective"

3rd Place

Aisha A. Al-Hammadi, Amna A. Al-Baker, Jawaher A. Al-Fakhroo, Galal M. Abdella and Khalifa N. Al-Khalifa Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar

"Optimizing National Resource Usage through the Integration of University Shuttle Service with the Public Rail: The Case Study in Qatar University"

Doctoral Dissertation Awards

1st Place

Husham A. Elbaloula

Sudan University of Science and Technology, Khartoum, Sudan

"The Effects of Steam Commingled Injection in Heavy Oil Production from FNE and Bamboo Sudanese Fields (Steam Adsorption and Distribution Challenges)"

2nd Place

Bandar A. Alkhayyal

Department of Engineering Management, College of Engineering

Prince Sultan University, Riyadh, Saudi Arabia

"Multi-Criteria Decision-Making Optimization for Reverse Supply Chains"

3rd Place

Khristian Edi Nugroho Soebandrija

Industrial Engineering Department, Faculty of Engineering

Bina Nusantara University, Jakarta, Indonesia

"Trilogy of Service Innovation's Antecedents: Banking's Financial and Non-Financial Performance"

Lina Gozali

Tarumanagara University, Indonesia

"Framework towards Successful Factors of Business Incubator for Indonesian Public Universities"

Master Thesis Competition Awards

1st Place

H. L. M. De Silva

Department of Operations Management, Faculty of Management

University of Peradeniya, Sri Lanka

"The Impact of Supplier Development Practices of Retailers and Buyer Supplier Relationship on the Performance of Suppliers in the Clothing Industry in Sri Lanka"

2nd Place

Muhammad Reza Do. Bagus

School of Information Management and Computer Tidore Mandiri, Indonesia

Muhammad Fikri Do. Bagus, Information Engineering Dept. Gunadarma, University, Indonesia

"Analysis Heterogeneous Human Sensory Data from Product Exterior Design Using BRSM"

Best Poster Awards

1st Place

Rosnani Ginting and Juliza Hidayati, Department of Industrial Engineering, University of North Sumatra, Medan, Indonesia

"The Integration of Kano's Model and Quality Function Deployment: A Case Study for Design of An Alternative Energy Utilization"

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2nd Place

Ryan Christopher M. Malicdem, Diana M. Jumadiao, Jevi Jee S. Umbac, Angel Joy J. Quizon, Leonard Jessie P. Repollo, Yoshiki B. Kurata

Department of Industrial Engineering, Technological Institute of the Philippines

"Awetism: A User Ergonomic Learning Management System Intended for Autism Diagnosed Students in the Philippines"

3rd Place

Cátia Lobato Ferreira, Maria Henriqueta Almeida, António Grilo

Departamento de Engenharia Mecânica e Industrial and UNIDEMI, Faculdade de Ciências e Tecnologia, Universidade, Nova de Lisboa, Caparica, Portugal

"Lean IT adoption: Success cases in Portuguese Banks"

Undergraduate Research Competition Awards

1st Place

Alaa Alshammari, Sahar Redha, Shahad Hussain, Tuleen Nazzal, Zahraa Kamal, and Walid Smew Industrial Engineering Department, American University of the Middle East (AUM), Kuwait

"Quality Improvement in Plastic Injection Molding Industry: Applying Lean Six Sigma to SME in Kuwait"

2nd Place

Angga Pratama Herman, Noor Ilyana Ismail, Muhammad Asnawi Vaea and Muhammad Luqman Hasan Petroleum Engineering Department, Universiti Teknologi PETRONAS, Malaysia

"The Impact of Sand Particle Size and Velocity on Sand Erosion of Stainless Steel Plate using Sand Blasting Technique"

3rd Place

Noor Ilyana Ismail, Aruvin Prakasan, Angga Pratama Herman, M Luqman Hasan, and Nasiman Sapari Universiti Teknologi PETRONAS, Bandar Seri Iskandar, Perak, Malaysia

"Characterization of Geotextile Material for Downhole Application"

Simulation Competition Awards

1st Place

Afnan Hamadah, Lina Handa, Nourhan Hasan, Samar Qutom, Yasmeen Sheebeeb and Ufuk Kula Industrial Engineering Department, American University of Middle East, Kuwait

"Simulation of Patient Flow and Healthcare Resources in a Hospital"
Best Track Papers Awards

Business Management

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 Doctoral Student Postgraduate Program University Mercubuana Jakarta, Indonesia Asep Saefudin Doctoral Student Postgraduate Program University Mercubuana Jakarta, Indonesia Prof. Dr. S. Pantja Djati, M.Si, MA Chairman of Postgraduate Program Doctoral Management University Mercubuana, Jakarta, Indonesia

Case Studies

ID 564: Lean IT adoption: Success cases in Portuguese banks

Cátia Lobato Ferreira

Departamento de Engenharia Mecânica e Industrial

Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

Caparica, Portugal

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Maria Henriqueta Almeida and António Grilo Departamento de Engenharia Mecânica e Industrial and UNIDEMI Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa Caparica, Portugal

ID 341: Calibration system for costs reduction: Case study in the maquiladora industry.

Karina Cecilia Arredondo-Soto Universidad Autónoma de Baja California, Mexico

Maria del Socorro Cruz-Castillo Tijuana Institute of Technology, Mexico

Teresa Carrillo-Gutiérrez, Maria Marcela Solis-Quinteros and Luis Alfredo Avila Lopez Universidad Autónoma de Baja California, Mexico

Construction Management

ID 579: Data Acquisition Model for Analyzing Cost Overrun in Construction Projects using KDD

Mai Monir Ghazal and Ahmed Mohamed Hammad Department of Industrial Engineering and Engineering Management University of Sharjah, Sharjah, U.A.E

E-Business and E-Commerce

ID 520: Time Table Scheduling for Educational Sector on an EGovernance Platform: A Solution from an Analytics Company

Vimal Kumar

Department of Management Studies

Maulana Azad National Institute of Technology (MANIT) Bhopal- 462003, India

Ankita Malviya

Indian Space Research Organization (ISRO), India

Pratima Verma

Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India

Vignaesh Muthukumaar

Consultant, EXL Services, Bengaluru, India

Sunil Kumar Jauhar

Department of Mechanical Engineering

Maulana Azad National Institute of Technology, MANIT-462003, Bhopal, India

Nagendra Kumar Sharma

Department of Management Studies

Maulana Azad National Institute of Technology (MANIT) Bhopal- 462003, India

Energy

ID 462: The Influence of Nonlinear Loads on Optimal Operation Control of Electrical Distribution System

Agus Ulinuha Department of Electrical Engineering UniversitasMuhammadiyah Surakarta Surakarta, Central Java, Indonesia

ID 107: Life cycle impacts for electricity generation from wind source

Md. Mizanur Rahman, Hasan Mohd Faizal, Aminuddin Saat and Mazlan Abdul Wahid Faculty of Mechanical Engineering Universiti Teknologi Malaysia

Engineering Education

ID 108: Safe Human-Machine Centered Design of an Assembly Station in a Learning Factory Environment

Rafael Rojas, Erwin Rauch, Patrick Dallasega and Dominik T. Matt Industrial Automation and Engineering (IEA) Faculty of Science and Technology Free University of Bolzano, Italy

Dominik T. Matt Fraunhofer Italia Research S.C.A.R.L. Innovation Engineering Center (IEC) Free University of Bolzano, Italy

Engineering Management

ID 364: Risk Analysis Related to Costing and Scheduling of Construction Projects

Mohamed A. Aderbag

Project Manager, Organization for Development of Administrative Centers (ODAC), Tripoli, Libya

Saber Kh. Elmabrouk Faculty of Engineering, University of Tripoli, Libya

Mohamed A. Sherif

School of Engineering and Applied Science, Engineering Project Management Department The Libyan Academy, Tripoli-Libya

ID 115: Empirical analysis of bankrupt companies using linear and nonlinear techniques in Japanese Stock Markets

Masanobu Matsumaru

Department of Industrial Engineering and Management of Faculty of Engineering Kanagawa University, Kanagawa, Japan

Takaaki Kawanaka

Institute for Innovation in International Engineering Education, Graduate School of Engineering The University of Tokyo, Tokyo, Japan

Shoichi Kaneko
Faculty of Management Information
Yamanashi Gakuin University, Yamanashi, Japan

Entrepreneurship and Innovation

ID 46: Innovation and Growth in Family-Owned Mexican SMEs

Gonzalo Maldonado-Guzmán Centro de Ciencias Económicas y Administrativas Universidad Autónoma de Aguascalientes Aguascalientes, Ags., México C.P. 20131

Jose Arturo Garza-Reyes Centre for Supply Chain Improvement University of Derby, Derby, DE22 1GB, UK

Sandra Yesenia Pinzón-Castro Centro de Ciencias Económicas y Administrativas Universidad Autónoma de Aguascalientes, México C.P.

Juan Mejía-Trejo Centro Universitario de Ciencias Económicas y Administrativas Universidad de Guadalajara Zapopan, Jalisco, México C.P. 45100

Vikas Kumar Bristol Business School University of the West of England, Bristol, BS16 1QY, UK

Simon Peter Nadeem
Centre for Supply Chain Improvement
University of Derby, Derby, DE22 1GB, UK

Healthcare Systems

ID 17: A system dynamic approach of patient satisfaction in India's leading healthcare

Maria S. Sebastin, School of Business, Amrita Vishwa Vidyapeetham, Bengaluru, Karnataka, India Mridula Sahay, Amrita School of Business, Amrita Vishwa Vidyapeetham University, Coimbatore, Tamil Nadu, India

ID 615: Minimizing Response Time in Medical Emergency Service: A Literature Review

Muhammad Isnaini Hadiyul Umam, Budi Santosa and Nurhadi Siswanto Industrial Engineering Department Institute Technology of Sepuluh Nopember, Surabaya, 60111, Indonesia

Human Factors and Ergonomics

ID 587: Work-Related Musculoskeletal Risk Assessment among Structural Iron Workers in a Steel Company in the Philippines

Pauline Irish D. Jalac, John Paul E. Sison, John Michael Y. Fedilo, Romalyn L. Galingan, Ma. Teodora E. Gutierrez, Yoshiki B. Kurata
Department of Industrial Engineering
Technological Institute of the Philippines, Quezon City, Philippines

Information Technology and Information Systems

ID 608: Challenges of Digital Collaboration in the South African Construction Industry

Oke Ayodeji Emmanuel, Aghimien Douglas Omoregie, Aigbavboa Clinton Ohis & Koloko Nteboheng Department of Construction Management & Quantity Surveying, University of Johannesburg, South Africa

Inventory Management

Single Vendor-Buyer Integrated Inventory Model for Deteriorating Items Considering Carbon Emission

Yosef Daryanto

Department of Industrial & System Engineering,

Chung Yuan Christian University, Chungli, Taiwan

&

Department of Industrial Engineering,

Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

Hui-Ming Wee

Department of Industrial & System Engineering,

Chung Yuan Christian University, Chungli, Taiwan

Lean and Six Sigma

ID 80: Implementation of Lean Manufacturing System To Eliminate Wastes on The Production Process of Line Assembling Electronic Car Components With WRM And VSM Method

[Case Study In Production Process of Daihatsu SIGRA Type 1.5 L 3NR-Ve, DOHC Dual VVT-i]

Muhammad and Yadrifil

Department of Industrial Engineering (IE UI)

Faculty of Engineering, Industrial Engineering Department

Logistics Management

ID 315: Criteria Affecting the Selection of Logistics Service Provider for Retail Small and Medium Enterprise in Thailand

Chawanluck Suriyajaroen

Graduate Program in Logistics Engineering and Supply chain Management

Department of Industrial Engineering

Chiang Mai University

Chiang Mai, Thailand

Apichat Sopadang

Department of Industrial Engineering

Excellence Center in Logistics and Supply Chain Management

Chiang Mai University

Chiang Mai, Thailand

ID 174: Impact of Order Picking Regions on the Performance of Routing Picking Policies Hala Ahmed, Raafat Elshaer†, and Mahassen Khater

Industrial Engineering Department

Faculty of Engineering, Zagazig University

Zagazig, Egypt

Manufacturing and Design

ID 302: Scaling up Model for Developing Second-Generation (2G) Bioethanol by using Palm Empty Fruit Bunches Feedstock

Sawarni Hasibuan

Industrial Engineering Department

Universitas Mercu Buana, Jakarta, Indonesia

Hermawan Thaheer

Computer Science Department

Universitas Pakuan, Bogor, Indonesia

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Rosalendro Eddy Nugroho

Master of Management, Universitas Mercu Buana, Jakarta, Indonesia

Modeling and Simulation

ID 402: Modeling and Simulation of Queuing Systems Using Stochastic Petri net and Arena Software: A Case Study

Husam Kaid and Abdulmajeed Dabwan

College of Engineering, Industrial Engineering Department, King Saud University, Riyadh, Saudi Arabia

Abdulrahman Al-Ahmari

FARCAMT Chair, Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia

ID 422: Simulation Analysis of Segmented CONWIP: Application to Reentrant Flow Lines

Yassin M. Shaalan, Ingy A. El-Khouly, and Khaled S. El-Kilany

Department of Industrial and Management Engineering

Arab Academy for Science, Technology, and Maritime Transport

Alexandria, Egypt.

Operations Management

ID 295: The effect of Third Parties Fund, Non-Performing Loan, Capital Adequacy Ratio, Loan to Deposit Ratio, Return on Assets, Net Interest Margin and Operating Expenses Operating Income on Lending (Study in Regional Development Banks in Indonesia)

Sugeng Riadi

Program Doktor Manajemen, Pascasarjana Universitas Mercubuana

Universitas Mercubuana, Jakarta, Indonesia

Operations Research

ID 221: A Mathematical Model for Outbound Truck Scheduling with Multiple Trips in Multi-Door Cross Docking System

Nattapong Kamsura and Warisa Wisittipanich

Department of Industrial Engineering

Faculty of Engineering, Chiang Mai University

Chiang Mai 50200, Thailand

Production Planning and Management

ID 87: Influence of Inventory and Work in Process Adjustment Time on Production Target Achievement of D Minus 1 Production Scenario: A Case Study of Hospital Bed Production

Susanto Sudiro

Magister Teknik Mesin, Universitas Pancasila Jakarta

JI Borobudur No 07 Menteng , Jakarta Pusat 10320, Indonesia

Sha'ri Mohd Yusof

Razak School of Engineering and Advanced Technology

Universiti Teknologi Malaysia Kuala Lumpur

Revino

Post Graduate Program, Institut Sains dan Teknologi Nasional Jakarta Jalan Duren Tiga Pasarminggu, Jakarta Selatan 12760, Indonesia

Project Management

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ID 141: Early Project-Management Performance and Project Outcomes Correlate

Hong Long Chen, Department of Business and Management, National University of Tainan, Taiwan

Quality Control and Management

ID 604: Defect Control via Forecasting of Processes' Deviation as JIDOKA Methodology

Dr: Ahmed M. Abed (1)and Dr: Adel Abd Elmo'z Ibrahim Department of Industrial Engineering, Zagazig University, Egypt

Reliability and Maintenance

ID 313: Overall Equipment Effectiveness (OEE) at the Laboratory of Structure Testing

Rahmat Nurcahyo, Faisal, Muhammad Dachyar and Muhammad Habiburrahman Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, 16424, Indonesia

Statistics and Optimization

ID 648: Branch and Bound Algorithm for Finding the Maximum Clique Problem

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Supply Chain Management

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Yang Liu and Yang Zhang Department of Industrial Engineering Tsinghua University, Beijing, USA

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Vinay Surendra Yadav; H.K. Narang and A. R. Singh Department of Mechanical Engineering National Institute of Technology Raipur, Chhattisgarh, India

Sustainability and Green Systems

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Edie Ezwan Mohd Safian, Heng Jia Yun, Burhaida Burhan, Mohd Lizam Mohd Diah and Mat Tawi Yaacob Department of Real Estate Management Faculty of Technology Management and Business

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Abdul Hadi Nawawi Department of Estate Management Faculty of Architecture, Planning and Surveying Universiti Teknologi MARA, Malaysia

Sustainability in SC

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Sustainable Manufacturing

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Bruno Gallotta, Jose Arturo Garza-Reyes and Anthony Anosike Centre for Supply Chain Improvement University of Derby Derby, UK, DE22 1GB

Transportation and Traffic

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