

2019 IEOM Awards - Riyadh, Saudi Arabia

November 27, 2019

IEOM Distinguished Leadership Award

- Dr. Ahmed S. Yamani, Rector Prince Sultan University, Riyadh, Saudi Arabia
- Dr. Hemaid Alsulami, Saudi Society for Industrial & Systems Engineering, General Secretary, Saudi Arabia
- Eng. Saleh I Al-Shabnan, Chairman of the Board Members of Supply Chain & Procurement Society, Saudi Arabia

IEOM Distinguished Educator Awards

- Dr. Abdulhakim A. Almajid, Dean, College of Engineering, Prince Sultan University
- Dr. Khaled A. Abuhasel, Dean, College of Engineering, University of Bisha, Saudi Arabia
- Prof. Majid M Aldaihani, Assistant Vice President for Planning, Kuwait University, Kuwait
- Dr. Samar S. Khan, Dean, Effat College of Business, Effat University, Jeddah, Kingdom of Saudi Arabia

Distinguished Professor Award

- Dr. Hesham K. Al-Fares, Chair of Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
- Dr. Ammar Y. Algahtani, Industrial Engineering Department, King Abdulaziz University, Saudi Arabia
- Dr. Mohammed Alkahtani, Associate Professor of Industrial Engineering Department, Vice Dean, for Scientific Research and Development, Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia
- Dr. Osama Al Jamal, College of Engineering, University of Bahrain
- Dr. Surendra M. Gupta, Professor of Mechanical and Industrial Engineering Director of Laboratory for Responsible Manufacturing (LRM), Northeastern University, Boston, MA, USA

IEOM Distinguished Industry Achievement Awards

- Dr. Andreas Schwer, CEO, Saudi Arabian Military Industries (SAMI)
- Dr. Sami Alnuaim, The President of the Society of Petroleum Engineers (SPE) International
- Eng. Suliman Almazroua, CEO, VRP Office of the National Industrial Development and Logistics Program
- Eng. Ziad Al Mulsallam, EVP Engineering & Operation, Advanced Electronics Company

Keynote Speaker Awards

- H.E. Eng. Osama Al Zamil, Deputy Minister at Ministry of Industry and Mineral Resources
- Dr. Mohammed Al-Majed, Senior Advisor to the Minister, Ministry of Industry and Mining, Saudi Arabia

Outstanding Achievement Award

Muteb Alshammari, NEOM

IEOM Outstanding Researcher Award

• Dr. Salih Duffuaa, Department of Systems Engineering, King Fahd University of Petroleum & Minerals

IEOM Woman in Industry and Academia Award

• Dr. Areej Malibari, Dean, College of Engineering, Princess Nora Bint Abdulrahman University, Riyadh, Saudi Arabia

IEOM Global Engineering Education Award

Salah Elaskari, Ph.D., IE Accreditation Coordinator, Assistant Professor, Industrial Engineering Department, Faculty
of Engineering, University of Tabuk, Saudi Arabia

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IEOM Industry 4.0 Awards

- Ilya Simonov, CROC VR Director, Moscow, Russia
- Dr. Mohammed Khursheed Akhtar, Data Scientist at KAU-Web Observatory for Web Studies, King Abdulaziz University (KAU), Jeddah, Saudi Arabia

IEOM Teaching Excellence Award – Industrial Engineering

• Dr. Ahmad AlKhaleefah, Prince Sultan University

IEOM Teaching Excellence Award – Operations Management

Dr. Ali Ahmed Al-Matoug, Prince Sultan University

IEOM Distinguished Service Awards

 Dr. Bandar A. AlKhayyal, Director of Master in Engineering Management Program, Prince Sultan University, Riyadh, KSA

IEOM Outstanding Service Awards

- Dr. Talal Alsulaiman, Prince Sultan University
- Dr. Rafed A. Zawawi, Prince Sultan University
- Mr. Abdulrhman Al. Fehaid, Prince Sultan University
- Mr. Abdullah S. Alhashel, Government Relations Officer, Prince Sultan University
- Mr. Mohmmed A. Alsadoun, Assistant Government Relations Officer, Prince Sultan University
- Ms. Shahad A. Alkhayyal, General Commission for the Guardianship of Trust Funds for Miniros and their Counterparts
- Eng. Sara A. AlOmran, Armed Forces Medical Services, Ministry of Defense
- Ms. Noura Alalshaikh, Eye of Riyadh
- Dr. Abdulaziz T. Almaktoom, Operations and IM Department, Effat University, Jeddah, Saudi Arabia

Sponsor Awards:

- Asiaf Development Company, Riyadh, Saudi Arabia
- Flynas
- Eye of Riyadh

IEOM Outstanding Student Chapters

Gold

- 1. King Abdulaziz University (KAU), Jeddah
- 2. Effat University

Silver

- 3. King Abdulaziz University, Jeddah
- 4. King Abdulaziz University, Rabigh
- 5. King Fahd University of Petroleum and Minerals (KFUPM)
- 6. Prince Sultan University

Bronze

- 7. King Saud University (KSU)
- 8. Princes Nourah University (PNU)
- 9. Taibah University
- 10. UQU
- 11. Al Faisal University

IEOM Outstanding Student Chapter Advisor Award

- Dr. Abdulaziz T. Almaktoom, Assistant Professor, College of Business, Operations and Information Management Department, Effat University, Jeddah, Saudi Arabia
- Dr. Ammar Al-Qahtani, Assistant Professor, Department of Industrial Engineering, King Abdulaziz University (KAU), Jeddah, Saudi Arabia
- Dr. Hesham K. Alfares, Chairman & Professor, Systems Engineering (SE) Department, College of Computer Sciences & Engineering (CCSE), King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia
- Dr. Mohammed Alkahtani, Associate Professor of Industrial Engineering Department, Vice Dean, for Scientific Research and Development, Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia
- Dr. Kaouther Mohamed Ghachem, College of Engineering, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia
- Dr. Mariam Ali Alasmari, College of Engineering, Princess Nourah bint Abdulrahman University, Riyadh, Saudi Arabia

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- Dr. Bandar A. Alkhayyal, Director of Master in Engineering Management Program and Assistant Professor, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Kingdom of Saudi Arabia
- Dr. Rayan Omar, Assistant Professor at Industrial Engineering department, Taibah University, Medina, Saudi Arabia
- Dr. Raed Naebulharam, Head, Department of Industrial Engineering, Faculty of Engineering in Rabigh, King Abdulaziz University, Rabigh, Kingdom of Saudi Arabia
- Dr. Ayman, UQU
- Dr. Abdallah, Al Faisal University

IEOM Outstanding Student Leadership Award

- Abdulmajeed Althunayyan, President of IEOM chapter at King Fahd University of Petroleum and Minerals
- Abdullah S. Albathi, President of IEOM chapter at Prince Sultan University
- Faisal AlDubaikhi, President of Youth Development Association at Prince Sultan University

IEOM Service Awards

- Abdulmajeed Althunayyan, King Fhad University of Petroleum and Minerals, Simulation competition Head of Organizing Committee
- Dr. Syed Mujahid, King Fhad University of Petroleum and Minerals, Simulation competition Technical Committee Leader
- Dr. Omar Alsawafy, King Fhad University of Petroleum and Minerals, Simulation competition Technical Committee Member
- Dr. Talal Alsulaiman, Prince Sultan University Simulation competition Technical Committee Member
- Faisal Aldebaikhi, Prince Sultan University Conference, Vice president of IEOM student chapter @ PSU
- Mohammed Alajlan, Prince Sultan University Conference, Crowd Management
- Ammar Alobaid, Prince Sultan University, Conference Crowd management organizer
- Mohammed Al-Hoshan, Prince Sultan University, Conference Logistics
- Mohammed Alzahrani King Fahd University of Petroleum and Minerals, Simulation competition, Public Relation
- Yara Ali Alghamdi Princess Nourah Bint Abdulrahman University, Simulation competition, Ambassador
- Abbod Saeed Omar Binsumaidea, Taibah University Simulation competition, GSS Competition Coordinator
- Firas Alrumaykhani King Fahd University of petroleum and minerals Simulation competition Director of operations committee
- Abdullah alabdulkarim King Fahd University of Petroleum and Minerals Simulation competition, Communication committee member
- Abdulelah Abdulaziz I Alswailem King Saud University Simulation competition, Leader of marketing team
- Khalid Fawaz alfawaz King Saud University Simulation competition Simulation Competition Marketing
- Abdullah Albathi Prince Sultan University Conference President of IEOM student chapter @ PSU
- Mohammed AlSara King Saud University, Simulation competition, Designer/ Member of Marketing Team

Panelist Award

Tracks: Industrial & Manufacturing

- Panel Chair Dr. Mohammed Al-Majed
- Dr. Mohammad Alkahtani: Chief Technology Officer, Saudi Arabian Military Industries (SAMI)
- Dr. Hamad Alyousefi: CEO/DST: TAQNIA | Defense and Security Technology (DST)
- Eng. Ziad Al Mulsallam: EVP Engineering & Operation, Advanced Electronics Company

Tracks: Transport and Logistics

- Panel Chair Eng. Khalid Alghamdi
- Dr. Meshal Almofadhi, Logistics Consultant Saudi Industrial Development Fund SIDF
- Mr. Abdulrahman Al-Mubarak, Chief Ground Handling Officer for Saudia Cargo
- Mr. Rayan Qutub, CEO, King Abdullah Port
- Khalid Albakry, CEO Baas International Group

Tracks: Entrepreneurship and Innovation

Panel Chair – Hitham Khalid

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Undergraduate Student Paper Competition Awards Sponsored by SIEMENS

1st Place

ID 125 Identifying Enablers of Supply Chain Alignments

Abrar A. Alsharif and Abdulaziz T. Almaktoom, Department of Operations and Information Management, Effat University, Jeddah, Saudi Arabia

2nd Place

ID 198 A multi-period inventory replenishment policy for ATM network

Abdullah Alsagoor, Abdulrahman Alharbi, and Mohammad A. M. Abdel-Aal, Systems Engineering Department, King Fahd University of Petroleum and Minerals, 5063, Dhahran 31261, Saudi Arabia

3rd Place

Engineering Education Gamification: A Framework and Learners' Satisfaction Measurement on Case Study of Engineering Ethics Topic

Muslih Al Zahrani and Ahmed Al Suwaileh, Department of Industrial and Systems Engineering, University of Jeddah, KSA Mostafa Fawzy, Department of Industrial and Systems Engineering, University of Jeddah, Jeddah 25121, KSA

Graduate Student Paper Competition Awards sponsored by EATON Corporation

1st Place

ID 104 Multi-Criteria Group Decision-Making for Fire Station Staffing

Abdulaziz S. Alzahrani and Hesham K. Alfares, Systems Engineering Department, King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia

Graduate Poster Competition

ID 106 Biometrics based on human traits and characteristics appearing on tongues among individuals to be used as a print Nora Abood El-Manhali, D-Magbola Mamon, Fatimah El-Manhali and Fatimah El-Zaebi, Nora Al-Rashed, Saudi Arabia

Undergraduate Poster Competition

1st

D 153 Inventory and Quality Management: the Case of Dairy Industries

Lujain T. Jan, Jumana K. Alqurashi, Hanan H. Masood, Joud T. Alnounou, Leen E. Koshak, and Abdulaziz T. Almaktoom, Department of Operations and Information Management, Effat University, PO Box 34689, Jeddah 21478, Kingdom of Saudi Arabia

2nd

ID 338 Design and development of smart door closer mechanism

Khaled Musleh, Walid Aljadaan, Omar Almansour, Saud Sweidan, Emad Sweidan, and Tamer A. Sebaey, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

3rd

ID 223 Operations and Quality Management: the Case of Hospitality Industry

Shumokh A. Faqeeh, Raghad M. Bafageeh, Rawan A. Salah, and Abdulaziz T. Almaktoom, Department of Operations and Information Management, Effat University, PO Box 34689, Jeddah 21478, Kingdom of Saudi Arabia

3rd

Engineering Education Gamification: A Framework and Learners' Satisfaction Measurement on Case Study of Engineering Ethics

Nuslih Al Zahrani, Ahmed Al Suwaileh, and Mostafa Fawzy, Department of Industrial and Systems Engineering, University of Jeddah, Asfan Road, Jeddah 25121, SA

Undergraduate Research Competition

1st

ID 340 Design and development of a water gallons flipper for the Saudi market

Yazan Faroun, Khaled Al-Hindawi, Mohammed Al-Mulki, Hassan Al-Smadi, Kusai Saad, and Tamer A. Sebaey, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

2nd

D 341 Development of a multifunctional hand watch to store and organize pills for elderly people

Nawaf AlMehemeed, Faisal AlDebaikhi, Jaser AlJaser, Abdulelah AlMoudayfer, Fahad AlRobaian, and Tamer A. Sebaey, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

3rd

ID 339 Design and development of a novel multifunctional travelling pillow

Mohammed ALGharably, Abdullah Albathi, Mohammed ALhoshan, Mohammed ALajlan, Ammar kachoua and Tamer A. Sebaey, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

Simulation Competition Awards

2019 IEOM Gulf Student Simulation Competition Winners – GCC Riyadh Conference		
Name	University	Place
Khaled Altamimi	King Fahd University of Petroleum & Minerals	- 1st
Abdulrahman Alaboudi	King Fahd University of Petroleum & Minerals	
Ammar Alobaid	Prince Sultan University	2nd
Arwaa Jamal Banabilah	King Abdulaziz University	3rd
Abdullah Al-Bassam	King Abdulaziz University	4th
Abdullah Mushayt	King Abdulaziz University	
Sultan Bafageeh	King Abdulaziz University	
Emad Hasan Bin Suwedan	Prince Sultan University	4th
Firas Abdo	Prince Sultan University	
Osama Bha Aldeen	Prince Sultan University	
Mohammad Ghannam	King Fahd University of Petroleum & Minerals	5th
Abdullah Alothman	King Abdulaziz University	6th
Muaaz Adra	American University of Sharjah	7th
Nuha Aloud	Princess Nourah University	8th
Reem Aseeri	Princess Nourah University	

Best Track Papers Awards

Energy Management

ID 132 Optimization of Gas Pipeline Route Selection with Goal Programming Considering Environmental Aspects

Soufyan Maliki and Farizal, Department of Industrial Engineering, Universitas Indonesia, Depok – West Java, 16424, Indonesia

Renewable Energy

ID 317 Solar Irradiation Prediction Using Machine Learning Techniques: The Case of Saudi Arabia Tayeb Brahimi, Energy and Technology Lab, College of Engineering, Effat University, Jeddah 22332, KSA Ahmed Bensenouci, Electrical and Computer Engineering, College of Engineering, Effat University, Jeddah 22332, KSA

Budoor Alwateed, Master Student, Master in Energy Engineering, College of Engineering, Effat University, Jeddah 22332, KSA

Fatima Alhebshi, Bachelor Student, Electrical and Computer Engineering, College of Engineering, Effat University, Jeddah 22332, KSA

Technology Management

ID 22 Categorization of Indicators for Performance of Small and Medium Enterprises

Nor Mahirah Mustapha, Universiti Malaysia Pahang, Gambang Campus, Pahang, Malaysia Shahryar Sorooshian, School of Business, Economics and Law, University of Gothenburg, Gothenburg, Sweden Noor Azlinna Azizan, College of Business Administration, Prince Sultan University, Riyadh, Saudi Arabia

Waste Management

ID 265 Carbon Emissions and Energy Balance in the Design of a Sustainable Food Waste Network Model Adel W. Fadhel, Department of Systems Engineering, King Fahd University of Petroleum and Minerals, Dhahran, 31261, Saudi Arabia

Surendra M. Gupta, Department of Mechanical and Industrial Engineering, Northeastern University, Boston, Massachusetts 02115 U.S.A.

Sustainability and Green Systems

ID 210 Bamboo Bandals for the River Bank Erosion Protection

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Md. Lutfor Rahman, Director, Hydraulic Research Directorate, River Research Institute, Faridpur, Bangladesh

Environmentally Conscious Manufacturing

ID 213 Infrastructure Deficiency and Economic Performance in some selected West African Countries Abdulsalam S. Ademola and Abdullahi Badiru, Department of Economics and Development Studies, Federal University Dutsinma, Nigeria

Automation

ID 156 Deadlock Control Design and PLC Implementation of Automated Manufacturing Systems

Husam Kaid1, Abdulaziz M. El-Tamimi1, Abdulrahman Al-Ahmari1, Zhiwu Li3, 4, Emad Abouel Nasr1, 2, and Mohammed A. Noman1

- 1 Industrial Engineering Department, College of Engineering, King Saud University, Riyadh, 11421, Saudi Arabia
- 2 Mechanical Engineering Department, Helwan University, Cairo, Egypt
- 3 Institute of Systems Engineering, Macau University of Science and Technology, Taipa, Macau
- 4 School of Electro-Mechanical Engineering, Xidian University, Xi'an 710071, P. R. China

Sustainable Manufacturing

ID 291 Achieving sustainability in manufacturing systems: A quantitative study

Reda Nujoom, Maintenance Department, Transport Ministry, King Abdul Aziz Rd, Riyadh 11178, Saudi Arabia Ahmed Mohammed, Faculty of Transport & Logistics, Muscat University, Al Ghubra North, Muscat, Oman

Manufacturing

ID 209 Design the support structures for fused deposition modeling 3D printing

Wadea Ameen1, 2, Syed Hammad Mian2, Hisham Alkhalefah1,2

1 Industrial Engineering Department, College of Engineering, King Saud University, Riyadh, 11421, Saudi Arabia 2 Advanced Manufacturing Institute, King Saud University, Riyadh, Saudi Arabia

Engineering Management

ID 208 Use of Fractional Factorial Design and AHP to Determining the Best Marketing Strategy for a Lubricant Company

Anas Al-Dawalibi and Ibrahim H. Al-Dali, Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

Bandar A. Alkhayyal, Department of Engineering Management, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

Operations Management

ID 81 The Equilibrium Solution of Word-of-Mouth Marketing Strategy

Hennie Husniah, Department of Industrial Engineering, Langlangbuana University, Bandung 40261, Indonesia Aprillya R. Lanz, College of Humanities and Social Sciences, Grand Canyon University, Phoenix, AZ 85017, USA and School for Engineering of Matter, Transport and Energy, Arizona State University, Tempe, AZ 85287, USA Asep K. Supriatna, Department of Mathematics, Padjadjaran University, Bandung 45363, Indonesia

Reliability and Maintenance

ID 52 Condition Based Monitoring of Gearbox Transmission Using Wear Particle Analysis Technique Sayed Y. Akl, Hesham A. Abou El Anein and Sherif El-Soudy, The British University in Egypt, Cairo, Egypt

Simulation Modeling

ID 234 Using Agent-Based Modeling for IoT Application A Case Study of Retail Pharmacy in Saudi Arabia Amr Alghamdi, Bader Bugshan, Khalid Al-Ghafeer, Abdulkareem Alshammari, and Mohammed Basingab, Industrial Engineering Department, King Abdulaziz University, Jeddah, 22252, Saudi Arabia

Green Supply Chain Management

ID 111 The Recycling of Fire Extinguisher; First Step Toward a Circular Economy

Ana Julia Acevedo - Urquiaga, University Foundation of San Mateo, European-Latin American Center for Logistics and Ecological Projects (CELALE), Bogotá, Colombia

José Antonio Acevedo - Suarez, Logistic and Production Management Laboratory (LOGESPRO), Havana Technical University "José Antonio Echevarría" (CUJAE), Havana, Cuba

Neyfe Sablón – Cossío, Postgraduate Institute, Production and Services Group, Technical University of Manabi, Portoviejo, Ecuador

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Stefan Köhler, Institute of Agricultural and Urban Ecological Projects (IASP), Humboldt University of Berlin, Germany

Sebastiana del Monserrate Ruíz – Cedeño, University Cooperation Unit, Technical University of Manabi, Portoviejo, Ecuador

Erik Orozco - Crespo, Career Industrial Engineering, North Technical University, Ibarra, Ecuador

Transport and Logistics

ID 218 A Multi-Objective Mathematical Model for Closed Loop Supply Chain Design Awsan Mohammed*, Salih Duffuaa** and Ahmed M. Ghaithan* Systems Engineering Department* Construction Engineering and Management Department* King Fahd University of Petroleum & Minerals, Dhahran, 31261, Saudi Arabia