



IEOM Society

"Achieving and Sustaining Operational Excellence"

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2023 IEOM Awards – 3rd Indian International Conference on Industrial Engineering and Operations Management

New Delhi, India, November 2-4, 2023, Venue: The Royal Plaza Hotel

Distinguished Academic Leadership Award

Professor Mohammad Gulrez
Vice Chancellor
Aligarh Muslim University
Aligarh, India

Prof. S. Indu
Vice Chancellor
Delhi Technological University
Delhi, India

Prof. Santishree D. Pandit
Vice Chancellor, Jawaharlal Nehru University (JNU)
New Delhi, India

Prof. Timira Shukla
Director, I.T.S. School of Management
Ghaziabad, India

Distinguished Industry Leadership Award

Er. Harjinder Singh Cheema
Chairman Cheema Boilers Limited
Former Chairman CII Mohali Zone
Sennate Member and Professor of Practice at Indian Institute of Technology, Ropar, Punjab
Professor of practice at Beant University, Rayat Bahra University, Shoolini University
Advisor at FIED IIM Kashipur, Lovely Professional University and Chandigarh Group of College

Dr. Kamal Kishore Singh, IPS
ADG of Civil Defence in the Disaster Management Department
Government of Bihar, India

Mr. Tarun Aggarwal
Vice President
Maruti Suzuki India Limited
Gurugram, Haryana, India

Mr. Sunil Kant Munjal
Chairman
Hero Corporate Service Private Limited
264, Okhla Industrial Estate
Phase III, New Delhi 110020, India

Distinguished Industry Achievement Award

Vijay Sharma
Vice President
Pavna Industries Limited
Aligarh, UP, India

Mr. Rakesh Vasisht
Vice Precedent
Hero Motocorp
Delhi, India

Mr. Sanjay Ranawade
Senior Vice President (CMO)
Jewellery Division
Titan Company Limited, India

Lifetime Achievement Award

Dr. Devinder Kumar Banwet FIE
Vice Chancellor Founding Retd
University of Engineering & Management
Kolkata India
Professor Emeritus, DMS, IIT Delhi, India

Distinguished Professor Award

Dr. M. Muzammil, M.Sc. Engineering, Ph.D.
Professor
Ergonomics Research Division
Mechanical Engineering Department
A.M.U., Aligarh, India

Outstanding Professor Award

Dr. Christopher Harris
Associate Professor of Computer Science
University of Northern Colorado
Greeley, Colorado, United States

Prof. Angelika Peer
Full Professor
Faculty of Engineering
Free University of Bozen-Bolzano
Italy

Professor Arshad Noor Siddiquee, PhD
Professor
Department of mechanical Engineering
Jamia Millia Islamia (a Central University), New Delhi
South Delhi, Delhi, India

Outstanding Professor Award in Quality Control

Faisal Talib
Professor
Mechanical Engineering Department
A.M.U., Aligarh, India

Outstanding Professor Award in Operations Research

Dr. Sundaravalli Narayanaswami
Associate Professor and Ex-Chairperson, Public Systems Group (PSG)
Indian Institute of Management, Ahmedabad, India
President, ORSI-Ahmedabad Chapter

Outstanding Professor Award in Operations Management

Dr. Sushil Kumar
Professor in Operations Management
Indian Institute of Management, Lucknow
Prabandh Nagar, IIM Road
Lucknow, Uttar Pradesh, India

Dr. Abhijit Majumdar
R. Jaikrmar Chair Professor for Operations Management
Indian Institute of Technology
Delhi, India

Outstanding Young Faculty Award in Business Management

Dr. Vivek Soni F.I.E.
Assistant Professor
Faculty of Management Studies
University of Delhi logo
New Delhi, Delhi, India

Outstanding Young Faculty Award

Vernika Agarwal, PhD
Associate Professor
Apeejay School of Management
Dwarka, New Delhi, India

Mst Sumi Akter
Department of Electrical and Electronics Engineering
Faculty of Science and Engineering, World University of Bangladesh
Dhaka, Bangladesh

Woman in Industry and Academia Award

Prof. Dr. LEONG Wai Yie
INTI International University, Malaysia
Immediate Past Chairperson of The Institution of Engineering and Technology
Vice President of International Network of Women Engineers and Scientists (INWES)
Deputy Vice Chair of World Federation of Engineering Organisation (Women in Engineering Committee)

Zoubida Benmamoun
Faculty of Engineering
Liwa College of Technology
Abu Dhabi, United Arab Emirates

Vernika Agarwal, PhD
Associate Professor
Apeejay School of Management
Dwarka, New Delhi, India

Global Manufacturing Education Award

Dr. Qasim Murtaza
Professor, Department of Mechanical Engineering
Delhi Technological University
Delhi, INDIA

Global Engineering Education Award

Nitin Seth
Director, Indo-French Centre for the Promotion of Advanced Research (IFCPAR/CEFIPRA)
Department of Science & Technology, Govt. of India and Ministry for Europe & Foreign Affairs
Govt. of France, New Delhi

Industry Solutions Award

Dr. Prabir Kanti Basu
Senior Vice President, Reliance New Solar Energy Ltd (RNSEL)
Reliance Industries Limited
Faridabad, Haryana, India

Ajay Sambrani
Managing Director Asia Pacific
Member of Group Executive Management
TUBACEX
Mumbai, Maharashtra, India

Susheel Balaji
Deputy General Manager
Purchase Ferrous Castings
Tata Motors Limited
Pune, Maharashtra, India

Mr. Partha Pratim Dutta
Chief General Manager
Oil India Limited (OIL)
NOIDA, UP, India

Global Business Management and Operations Excellence Award

Saurabh Parmar
CMO, Fractional
Delhi, India

Global Artificial Intelligence and Machine Learning Award

Dr Suraj Kumar Mukti
Associate Professor, Department of Mechanical Engineering
NIT Raipur
Raipur, Chhattisgarh, India

Healthcare Solutions Award

Dr. Vinaytosh Mishra, PhD
Director, Thumbay Institute for AI in Healthcare
Associate Professor, College of Healthcare Management and Economics
Gulf Medical University, Ajman, UAE
Adjunct Faculty – Datta Meghe Institute of Higher Education & Research, Maharashtra, India

Global Engineering Education Award

Dr. Faisal Hasan
Professor, Mechanical Engineering Department
A.M.U., Aligarh, India

Industry 4.0 Teaching Award

Dr. V. Vasu
Professor, Department of Mechanical Engineering
National Institute of Technology (NIT), Warangal, India

Global Supply Chain and Logistics Award

Dr. Gaurav Kabra
Associate Professor, Operations and Supply Chain Management
O.P. Jindal Global University (JGU)
Delhi, India

Dr. Saurabh Agrawal
Associate Professor, Delhi School of Management
Delhi Technological University
Delhi, India

IEOM Distinguished Leadership Award

Dr. Seema Singh
Professor of Economics, Department of Humanities
Delhi Technological University
Delhi, India

M. Affan Badar, PhD, CPEM, IEOM Fellow
Professor & PhD Technology Management Director
Former Chair, Applied Engineering and Technology Management Department
Bailey College of Engineering and Technology
Indiana State University, Indiana, USA

Dr. Abid Ali Khan
Professor, Department of Mechanical Engineering
ZH College of Engineering & Technology
AMU, Aligarh, India

Cdr Dr. Bhaskar Bhandarkar
DG Institution for Innovation Industrial Engineering and Entrepreneurship, Mumbai
Chairman MRDB Institute of Engineers, India

Dr. Qutubuddin SM
Associate Professor of Industrial and Production Engineering
PDA College of Engineering, Gulbarga, India
Director IEOM Operations in India

Outstanding Student Award

Hasanuddin S M, Methodist College of Engineering and Technology, Hyderabad, India
Ayesha Fatima, Stanley College of Engineering and Technology Hyderabad, India
Jowad Md Madha, and, Department of Mechatronics Engineering, World University of Bangladesh
Anika Nawar, Department of Mechatronics Engineering, World University of Bangladesh
Shahed Rahman, Department of Mechatronics Engineering, World University of Bangladesh

Competition Awards

Undergraduate Student Paper Competition Sponsored by Siemens

First Place

ID 227 Characterizing Internal and External Factors Affecting the Success of Health Food Industry in Peru
Valeria Midori Medina-Shimabukuro and Francesca Tricerri-Migone, Bachelor of Science in Industrial Engineering, Faculty of Engineering, Industrial Engineering Career, Universidad de Lima, Peru
Juan Carlos Quiroz Flores and Marcos Fernando Ruiz-Ruiz, Professor Researcher, Faculty of Engineering, Industrial Engineering Career, Universidad de Lima, Peru

Second Place

ID 20 Measurement of Software Quality Using the ISO 9126 Model on the Academic System of Jenderal Achmad Yani University
Fajar Ramadhan, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Puspita Nurul Sabrina, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Herdi Ashaury, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

Third Place

ID 8 Machine Learning-Enhanced Solar Vacuum Cleaner Robot
N Bhoopal, Professor, Department of Electrical and Electrical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India
P V Naga Sai Asritha, J Rohith Kumar, M Rohith Sagar and N Varshini, UG Student, Department of Electrical and Electrical Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India

Undergraduate Research Competition Sponsored by Daikin Applied

First Place

ID 91 Analysis on the Correlation of Food Insecurity Indicators and Academic Performance Affecting the City of Manila's University-Belt Students Staying in Dormitories During the Academic Year 2022 – 2023
Miguel Joachim L. Yang, Jamiel C. Cabuang, Joshua James S. Cefidoza, Nerick P. Fidelino and Ira Jane T. Tancio, Department of Industrial, Faculty of Engineering, University of Santo Tomas, Manila Philippines

Second Place

ID 107 Risk Factors Associated with Musculoskeletal Pain in Undergraduate Students: A Systematic Literature Review
Jimena Saori Barrenachea-Arakaki and Yomara Aurora Eusebio-Huerta, Industrial Engineering Bachelors, Faculty of Engineering, Industrial Engineering Career, University of Lima, Peru
Juan Carlos Quiroz-Flores, Research Professor, Faculty of Engineering, Industrial Engineering Career, University of Lima, Peru

Third Place

ID 230 Cooling Comfort with Less Cost: A Experimental Analysis on Ceiling Fan Energy Efficiency
Jai Bhortake, Veermata Jijabai Technological Institute, Mumbai, India
Rupesh Bhortake, Mr, Marathwada Mitramandal's Institute of Technology, Pune, India

ID 109 Enhancing Arecanut Plant Wellness: Innovative Disease Detection using deep learning algorithms
Qutubuddin Syed Mohammed, P.D.A. College of Engineering, India

Namra Mahveen, PDA College of Engineering, India

Umaira Shahneen, PDA College of Engineering, India
Hasanuddin S M, Student, Methodist College of Engineering and Technology, Hyderabad, India

Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women
Saheba Aijaz, Student, Stanley College of Engineering and Technology Hyderabad, India

Human Factors and Ergonomics Competition sponsored by CINTAS

First Place

ID 35 Home Office Physical and Psychosocial Ergonomic Effects on the Job Satisfaction of Service Sector Employees in Peru
Nicolle Guerinoni Lahoud and Lucienne Valerie Gyax Iglesias, Facultad de Ingeniería, Universidad de Lima, Peru
Ezilda Maria Cabrera Gil Grados, Associate Professor, Facultad de Ingeniería, Universidad de Lima, Lima, Peru

Second Place

ID 48 From Traffic Control to Self-care: A Study on Mental and Physical Well-being of Traffic Police Personnel in Identified Areas of North Bengaluru

Dr. Chandra Sen Mazumdar, PHD, Associate Professor, Department of Management Studies, Faculty of Management and Commerce, M.S. Ramaiah University of Applied Sciences, India

Brijesh Yadav, Harshitha T M, Jyothi R G, Khyaati Misra, Manvith C S, Sheikh Nida Afreen A, Smitha K S, Shahnawaz Ahmad Wani, Sufiyan Ahmed Khan and Sunidhi,

M.S. Ramaiah University of Applied Sciences, Bengaluru, India

Third Place

ID 219 Ergonomics Risk Assessment of Postures and Design of Workstation in Fastener Industry Veeresh S.Patil, Student, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, India
Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India Sagar, Student, Industrial and Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, India
Phani R. Katuru, Director, Chainsys Corporation, USA
Musa Adekunle Ibrahim, Department of Mechanical Engineering, Olabisi Onabanjo University, Ogun State, Nigeria
S.M. Hasanuddin, Student, Methodist College of Engineering & Technology, Hyderabad, India

Supply Chain and Logistics Competition

First Place

ID 32 Application of genetic algorithms to optimize distribution in food transport companies: A systematic literature review Ayre Rosales Dylan Andrei and Garcia-Lopez Yvan Jesus, Facultad de Ingeniería- Carrera de Ingeniería Industrial, Universidad de Lima Lima, Perú

Second Place

ID 226 Driver Factors in Bus Accident: A Systematic Review César Corrales, Departamento de Ingeniería, Pontificia Universidad Católica del Perú, San Miguel, Lima, Perú
María del Carmen Pardo-Ferreira and Juan Carlos Rubio-Romero, School of Industrial Engineering, Universidad de Málaga, Teatinos, Málaga, España

Third Place

ID 59 Balancing Cost and Environmental Impacts in Packaging Supply Chain Network: An Indian Perspective
Gulshan Kumar Gaur, Research Scholar, Department of Management Studies, Indian Institute of Technology Delhi (IIT Delhi), India
Jitender Madaan, Professor, Department of Management Studies, Indian Institute of Technology Delhi, India

Graduate Student Paper Competition sponsored by Eaton

First Place

ID 84 The Status Quo of Fourth Industrial Revolution (4IR) in the South African Higher Institutions
Thalente Nkosi, Durban University of Technology, South Africa

Second Place

ID 167 Exploiting Raspberry Pi Clusters and Campus Lab Computers for Distributed Computing
Jai Bhortake, Veermata Jijabai Technological Institute (VJTI), India

Masters Thesis Competition

First Place

ID 85 Modelling the Intention to Pledge Organs - A study of students aged above 18 years and working community in India
Nidhi Bhat, Ramaiah University of Applied Sciences, India

Second Place

ID 62 Automated Power Factor Correction and Energy Monitoring Using IOT
Adarsha Kamble, ZCOER, India

Senior Design Project Competition sponsored by Tooling Tech Group

First Place

ID 19 Design of machine
Rudra Parmar, Parul University, India

Second Place

ID 223 Implementation of Sustainable Packaging Solutions by Using 5Rs Methodology and Green Supply Chain Mehtab Ahmad, Dawood University of Engineering and Technology Karachi, Pakistan

Lean Six Sigma Competition sponsored by Tooling Tech Group

First Place

ID 213 Optimization of delivery for an e-commerce industry using Six Sigma methodology
Sumit Shandilya, Quality Growth Services Private Limited, New Delhi, India and School of Management, BML Munjal University, Gurugram, India

Suryabhan Singh Jamwal and Garima Arora, School of Management, BML Munjal University, Gurugram, India
Jaskiran Arora, CLTD & Education Quality, School of Management, BML Munjal University, Gurugram, India

Second Place

ID 7 An exploratory study on lean and green manufacturing approaches implementation in manufacturing industries Rajesh Kumar, Research Scholar, Department of Mechanical Engineering, FET, MRIIRS, India
Rajender Kumar, Associate Professor, Department of Mechanical Engineering, FET, MRIIRS, India

Third Place

ID 89 A Study Understanding the Holistic Impact of Lean Six Sigma and Industry 4.0 in Building a Circular Economy
Ashish Shrivastava, BITS Pilani, India

Simulation Competition

First Place

ID 95 Sharing Economy: Developing New Values in Carpooling Business Model
Morena Paulišić, Associate professor, Faculty of Economics and Tourism *Dr. Mijo Miroković*, Pula, Croatia
Maja Vizjak, Scientific associate, Institute for Migration and Nationalities, Zagreb Croatia

Second Place

ID 93 A new Model for Prioritizing Medical Equipment Maintenance in Healthcare Settings
Khaoula Khlie, Liwa College, United Arab Emirates

Third Place

ID 221 Comprehensive review of sustainable studies and system dynamics modeling in automobile industries
Payal Singh, Research Scholar, Dayalbagh Educational Institute, Agra, India
Sanjay Bhushan, Professor, Dayalbagh Educational Institute, Agra, India
D.K. Benwet, Professor, Indian Institute of Technology, Delhi, India

High School STEM Competition

First Place

ID 10 Documentation of Mycorrhiza and its benefits associated with Paddy Field
Meghna Mondal, Rima Gayen, Spandan Roy and Suman Sardar, Paribesh Unnayan Parishad, Sagar Block, India

Second Place

ID 58 Electricity Generation through Vibrations
Archit Goyal, Student, India

Third Place

ID 175 Probing a galaxy group with an FRB dispersion measure
Tejaswini Samanta, Army Public School Delhi Cantt Sunil Simha, University of California Santa Cruz
Kabir Saatvick Bhalla, Delhi Public School Vasant Kunj Rishabh Chaudhuri, Indian Institute of Science Education and Research

Third Place

ID 172: Theory of Ultimate Collision
Saransh Bachchan, Sanatan Dharam Vidya Mandir HUDA

Doctoral Dissertation Competition

First Place

ID 92 A Study of Infrared Signature Suppression Technologies for Shipboard Applications
AVSN Murty, Indian Navy, India

Second Place

ID 235 Study of Ionic Liquid and Nanoparticle Based Hybrid Nano-Additives for Enhancement of Tribological Performance of Lubricants
Upendra Maurya and V. Vasu, NIT Warrangal, India