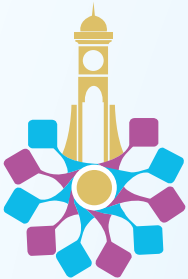




# 2<sup>nd</sup> GCC International Conference on Industrial Engineering and Operations Management

Muscat, Oman, December 1-3, 2024  
Venue: Hormuz Grand Muscat, A Radisson Collection Hotel  
Host: Sultan Qaboos University



## Conference Theme

**Industrial Engineering &  
Oman Vision 2040**

*Innovative Leadership &  
Sustainable Development*

**Welcome** to the 2nd GCC International Conference on Industrial Engineering and Operations Management (IEOM), an event dedicated to exploring the advancements, challenges, and future directions in industrial engineering and operations management as we align with Oman's Vision 2040. This conference aims to bring together researchers, practitioners, and educators from around the world to share insights, innovations, and trends, case studies, and best practices that will shape the future of the industry.

## Conference Tracks



### Supply Chain and Logistics

Supply Chain Design and Optimization, Multi-Echelon Supply Chains, Integrated Production and Distribution Planning, Transportation and Traffic, Supply Chain Modeling & Simulation, Production & Inventory Management, Reverse Logistics, Supply Chain Analytics, Supply Chain Disruption & Risk Management, Supply Chain Digital Twin, and Food Supply Chain.



### Quality, Reliability and Maintenance Engineering

Total Quality Management, Quality Assurance, Quality Management Systems, Statistical Quality Control, Process Improvement, Lean & Six Sigma, Resilient Infrastructure, Reliability Engineering & Management, Maintenance Management, Total Productive Maintenance, Reliability Centered Maintenance, Design of Experiments, Maintenance Strategies, Failure Analysis, Root Cause Analysis, Performance Excellence, and Quality Standards.



### Sustainable Operations Management

Production and Operations Management, Forecasting Models & Methods, Operations Scheduling & Optimization, Operations and Information Management, Sustainable Cities, Sustainable Development, Green Systems, Circular Economy, Cleaner Production, Renewable Energy, Corporate Social Responsibility, Sustainable Consumption & Production, Closed-Loop Supply Chain, Green Manufacturing, and Green Supply Chain Management.



### Manufacturing System Engineering

Automation and Manufacturing Execution Systems, Enterprise Resources Planning, Industrial Information Systems, Food Manufacturing, Computer-Integrated Design & Manufacturing, Systems Engineering, Lean Manufacturing, Facilities Planning, Production Systems Resilience, Work Systems Design and Analysis, Design of Manufacturing Systems, Intelligent Manufacturing, Industrial Robots, and Additive Manufacturing



### Service Systems

Healthcare Systems, Financial Systems, Educational Systems, Solid Waste Management Systems, Design of Service Systems, Service Operations Management, Customer Satisfaction, Service Performance Measurement, and Service Analytics.



### Business Analytics and Operations Research

Big Data Analytics, Decision Making with Business Analytics, Optimization, Mathematical Programming, Decision Support Systems, Artificial Intelligence, Machine Learning, Network Design, Simulation Modeling, Digital Twin Applications, Stochastic Modeling, Queuing Theory, Decision Analysis, and Heuristic Methods.



### Innovation, Entrepreneurship and Technology Management

Innovation Management, Social Innovation, Business Model Innovation, Entrepreneurship, Technology Management, Knowledge Management, Product Development, Design Thinking, Intellectual Property, and Digital Transformation.



### Health, Safety, and Environment

Occupational Safety and Health, Safety Engineering and Management, Occupational Ergonomics, Hazard Analysis, Loss Prevention, Human Factors Engineering, Human-centered Design, Human-Machine Interactions, Industrial Safety, Design of Workplaces and Tools, Environmental Design, Waste Management, Climate Change, Environmental Impact Assessment, Pollution, and Product Life Cycle Assessment.



### Project Management

Project Planning and Control, Project Scheduling, Human Resource Management, Concurrent Engineering, Material & Resources Management, Cost Estimation, Project Tracking, Budgeting, Risk Management, and Contract Management.



### Energy Systems and Smart Energy Management

Energy Efficiency, Smart Systems & Cities, Renewable Energy Systems, Hybrid Renewable Energy Systems, Energy Modeling, Energy Optimization, Smart Grids, Energy Scheduling, Energy Tariffs Design and Analysis, Demand-Side Management, Energy Storage Systems, Energy Economics, and Energy Policies.

## Submission Guidelines

Participants are encouraged to submit papers, case studies, and presentations that align with the conference tracks. Detailed submission instructions and templates are available on the conference website. For more details, kindly email: [ieom-conf@squ.edu.om](mailto:ieom-conf@squ.edu.om)

Conference Website: <https://conferences.squ.edu.om/ieom2024/>

