

第 16 届工业工程与管理国际会议

The 16th International Conference on Industrial Engineering and Management (ICIEM 2024)

会议手册 Conference Program

主办单位

Organizer

国际管理科学与工程协会 (IAMSET)

International Association of Management Science

and Engineering Technology



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大会内容

CONTENTS OF CONFERENCE

会议背景

BACKGROUND

工业工程与管理作为工程技术与管理领域的综合学科，在提高生产效率、优化资源利用、降低成本、提高产品质量和服务水平等方面发挥着日益重要的作用。那在数智时代，如何将互联网、大数据与工业结合，实现工业生产的优化设计和降本增效，并减少对环境的污染呢？

基于上述问题，第 16 届工业工程与管理国际会议(ICIEM2024)以工业生产与设计，工业工程计算与制造以及工业工程与环境为主题，旨在为研究人员、从业者和教育工作者提供一个重要的跨学科交流平台，以探讨和分享工业工程和管理领域的最新创新，趋势及最佳实践，以期更好地应对工业工程实践过程中遇到的机遇和挑战，为推动今后工业工程与管理的发展提供新的思路。

As a comprehensive discipline in the field of engineering technology and management, industrial engineering and management plays an increasingly important role in improving production efficiency, optimizing resource utilization, reducing cost, improving product quality and service level. In the age of digital intelligence, how to combine the Internet, big data and industry to achieve optimal design, cost reduction and efficiency of industrial production, and reduce environmental pollution?

Based on the above questions, the 16th International Conference on Industrial Engineering and Management (ICIEM2024), with the themes of Industrial Production

and Design, Industrial Engineering Computing and Manufacturing, and Industrial Engineering and Environment, aims to provide an important interdisciplinary exchange platform for researchers, practitioners and educators to explore and share the latest innovations in the field of industrial engineering and management. Trends and best practices, in order to better cope with the opportunities and challenges encountered in the process of industrial engineering practice, to promote the development of industrial engineering and management in the future to provide new ideas.

会议目的

OBJECTIVES

ICIEM2024 旨在汇集领先的学术科学家，研究人员和研究学者，交流和分享他们在工业工程和管理各个方面的经验和研究成果。它还为研究人员、从业人员和教育工作者提供了一个重要的跨学科平台，展示和讨论工业工程和管理领域的最新创新、趋势、关注以及遇到的实际挑战和采用的解决方案，为促进工业工程和管理未来发展提供了新的思路。凭借其高质量，它为学生、学者和行业研究人员提供了非凡的价值。

ICIEM2024 aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Industrial Engineering and Management. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Industrial Engineering

and Management. With its high quality, it provides an exceptional value for students, academics and industry researchers.

会议主题

TOPICS

会议主题 Topics

主题一/Topic 1:	Industrial Production and Design
主题二/Topic 2:	Industrial Engineering and Computing
主题三/Topic 3:	Industrial Engineering and Environment
主题四/Topic 4:	Industrial Engineering and Management
主题五/Topic 5:	Industrial Engineering and Manufacturing

日程安排

OVERALL SCHEDULE

May 22 14:30-18:00	会议测试 Conference Rehearsal		
May 23 9:00-16:45	开幕式 Opening Ceremony (9:00-9:10)		
	嘉宾演讲 Keynote Speech		
	时间 Time	报告题目 Title	报告人 Speaker
	9:10-9:25	Study on the CO ₂ sequestration of fly ash and employing the product to prevent spontaneous combustion of coal	Dr. Xu Shao (邵旭)
	9:25-9:50	Advancements in Exact Minimal Path-Based Algorithms for Reliability Assessment of Multistate Flow Networks	Prof. Majid Forghani-Elahabad
	9:50-10:15	New Insight into the Removal Process of Benzotriazoles in Advanced Oxidation Processes: Integrating Quantum Chemical Calculation with CFD Simulation	Prof. Juan Dang (党娟)
	10:15-10:45	An Overview of Inventory Management Problem	Prof. Magfura Pervin
	10:45-11:05	Efficacy and Societal Implications of Human-AI Collaborations: A Futuristic Outlook	Prof. Muhammad Zeeshan Mirza
	11:05-11:30		Prof. Rita Li Man Yi
	午餐时间 Lunch Break (11:30-14:30)		

嘉宾演讲 Keynote Speech		
时间 Time	报告题目 Title	报告人 Speaker
14:30-14:55	Assessment of Safe and Sustainable by Design Chemicals Engineering	Prof. Blaz Likozar
14:55-15:20	Embracing the Future: Role of Data-Driven Innovations in Modern Manufacturing Systems	Prof. Jalal Taji
15:20-15:45	Fixed Costs - A Lacuna in Supply Chain Pricing Analyses	Prof. Moshe Eben-Chaime
15:45-16:10	A Decomposition Method for Parallel Machine Scheduling and Location Problem with Sequence-dependent Setup Times	Dr. Yun Wang (王云)
16:10-16:35	Clean energy and the effect of pollution on the mental and respiratory health of students	Dr. Joud Aikhalifah
论文推荐 Citation Paper Recommended (16:35-16:40)		
闭幕式 Closing Ceremony (16:40-16:45)		

Note: All time above is for GMT+8:00

大会报告安排

SPEECHES ARRANGEMENT

时间: 2024年5月23日 上午 9:00-18:00

Time: May 23, 2024 9:00 a.m. -18:00 p.m. (Beijing Time)

地点: 线上会议

Location: Online Conference

大会主席: 刘振灵教授

Chairman: Prof. Zhenling Liu

线上参会链接:

<https://meeting.tencent.com/dm/wimW384NBUYI>

#腾讯会议: 659-577-215

会议密码: 2024

Online Attendance Link:

<https://meeting.tencent.com/dm/wimW384NBUYI>

Conference ID: 659-577-215

Password: 2024

嘉宾介绍

SPEAKERS INTRODUCTION



Jalal Taji, Assistant Professor

State University of Bojnord, Iran

Dr. Jalal Taji holds doctoral degree in industrial engineering, and currently works as an assistant professor at State University of Bojnord, Iran. He has 10 years of experience in improving manufacturing processes, mathematical modeling, optimization, simulation, machine learning, SPC, big data and data analysis, data-driven modeling and programming (MATLAB, GAMS, C#), and Industry 4.0, etc. He has published 5 journal papers and 6 conference papers. He was the member of International Research Institute for Artificial Intelligence and Data Science, and also resulted in 1 applied practical research in Steel Industrial Complex, Iran (Improving manufacturing process) by cross-functional collaboration. Dr. Jalal Taji also attended several international conferences or workshops, and gave his speeches.



Blaž Likozar, Professor

National Institute of Chemistry (NIC), Slovenia

Prof. Blaž Likozar is a head of the Department of Catalysis and Chemical Reaction Engineering at the National Institute of Chemistry (NIC), leading the programme “Chemical Reaction Engineering”, as well as numerous research projects (15H2020 / 50 in Horizon Europe alone). His expertise lies (among others) in heterogeneous catalysis materials, modelling, simulation and optimization of process fluid mechanics, transport phenomena and chemical kinetics. He worked at the University of Delaware in 2014 – 2015 as a Fulbright Program researcher. He has authored >330 articles, was cited >10000 times, having a h-index of 46. He is also involved in many industrial projects, amongst others, with TotalEnergies, Evonik Industries, UPM, Novartis, Carbon Recycling International. He is a recipient of Pregl and Zois awards.

**Dr. Yun Wang (王云), Scholar****Fuzhou University, China**

Yun Wang is a PhD candidate in Management Science and Engineering at Fuzhou University, China. She is the Visiting PhD at Pole Universitaire Leonard de Vinci, France. Her research interests lie on Parallel machine scheduling and location, Optimization algorithms, Complexity analysis and Combinatorial optimization. She has published 5 papers. Yun Wang also won several honors, including Top, First and Second-Class Scholarship of Fuzhou University in 2021 and 2019, and Outstanding Graduates of Zhongyuan University of Technology in 2019, etc.

**Magfura Pervin, Assistant Professor****Bangabasi Evening College, Kolkata, India**

Dr. Magfura Pervin currently is working as an assistant professor at the Department of Mathematics, Bangabasi Evening College, Kolkata, India. Her research interests focus on Supply Chain Management, Smart

Manufacturing System, Production Planning, Inventory Control, etc. She has published more than 20 papers. She also participated in seminar or workshop, and delivered her speeches. Dr. Magfura Pervin serves as a reviewer for journals, such as International Journal of Supply and Operations Management, Applied and Computational Mathematics, Frontiers in Psychology and so on.



Juan Dang (党娟), Associate Professor

Shandong University, China

Dang Juan currently works as an associate professor at Environment Research Institute, Shandong University, China. She is also the recipient of Hong Kong Scholars Program and the Young Scholars Future Program of Shandong University, and mainly engaged in related research on pollutants migration and transformation, atmospheric chemistry and advanced oxidation process. Prof. Dang Juan has published more than thirty papers in the international academic journals in the field of environment, and presided over the Youth Project of National Natural Science Foundation, key project sub-topics of National Natural Science Foundation and Future Scholars Program of Shandong University, etc.



**Majid Forghani-Elahabad, Assistant
Professor**

Federal University of ABC, Brazil

Majid Forghani-Elahabad earned his doctoral degree in Operations Research in 2014, and currently is an assistant professor of Applied Mathematics at the Federal University of ABC, Brazil. His research endeavors are primarily focused on system reliability, network optimization, and optical networks. He has reviewed more than 150 papers for over twenty-nine esteemed international journals, including IEEE Transactions on Reliability, Reliability Engineering & System Safety, Computers & Industrial Engineering, and Expert Systems with Applications. Prof. Majid holds editorial positions in eight international journals and has an extensive record as a reviewer.



Rita Yi Man Li, Associate Professor

Hong Kong Shue Yan University

Dr. Rita Yi Man Li graduated from HKU, now serving as an Associate Professor in Department of Economics and Finance in Hong Kong Shue Yan University. Her major field of research interests lies in SDGs, construction safety and health, housing economics, real estate economics, applied AI. She is listed as Stanford University World's Top 2% Scientist across 22 scientific fields and 176 sub-fields of all scientists (2020-2022 single year, 2022 career-long) with the highest rank in the fields of artificial intelligence, Information & Communication Technologies, Environmental Sciences (2021)/energy (2022). She acts as a journal editorial board member and SI editor for SSCI/SCIE journals, an author of 9 books and over 200 articles over the past eight years. She is also an invited keynote speaker for over 30 conferences.



**Muhammad Zeeshan Mirza, Assistant
Professor**

**National University of Sciences and Technology,
Pakistan**

Dr. Muhammad Zeeshan Mirza is the Assistant Professor (Management) and the Head of Department (HOD) Research of Business School, National University of Sciences and Technology, Pakistan. The courses he taught include Leadership and Organizational Behavior, Strategic Management, Human Resource Management, etc. He possesses rich research experience and conducted several Workshops. He has about 20 publications in the international journals and has about 10 conference articles. He is now the Editor-in-Chief of NUST Business Review and the Member Editorial Board of Journal of Applied Structure Equation Modeling.



Xu Shao (邵旭), Scholar

China University of Mining and Technology

Shao Xu is pursuing his doctoral degree from China University of Mining and Technology, China. His main research interests are CO₂ sequestration of solid waste and thermodynamic disaster prevention and control of tectonic coal. Dr. Shao Xu has published two peer-review articles to date in journals, including Energy and Fuel journal.



Moshe Eben-Chaime, Associate Professor

Ben Gurion University of the Negev, Israel

Moshe Eben-Chaime holds a doctoral degree in Industrial and Systems Engineering, and currently works as an associate professor at Department of Industrial Engineering & Management, Ben Gurion University of the Negev, Israel. His research interests focus on core IE, productivity and quality improvement, design of work methods, work stations, facilities and systems design, etc. He has published 27 research articles, one

conference paper and one book. He also attended academic conferences and made his contributions.



Joud Aikhalifah, Scholar

King Saud University, Saudi Arabia

Joud Alkhalifah is pursuing her doctoral degree of Medicine degree at King Saud University. As a doctor, her goal is to become a leader in translational medicine & Public health and contribute to the global fight against pandemics. As a researcher at the Translational Genomics Center at KFSHRC and a Medical Doctor at KSUMC, she is passionate about advancing the understanding and treatment of infectious diseases. And She is part of a team that established a national registry to monitor self-reported side effects and ICU admissions post COVID-19 vaccination, covering over 48 million doses administered.

组织机构

ORGANIZATION



ICIEM 2024 论坛承办单位国际管理科学与工程技术协会（IAMSET）于 2010 年在香港注册成立，为合法运营的专业机构，在郑州设立有办事处。业务范畴包括理学、自然科学、社会科学、工程科学、信息学、医学等，涵盖了国际 STEM 的全部学科：科学（Science），技术（Technology），工程（Engineering），数学（Mathematics）等，并通过组织国际学术会议、论坛、研讨会等多种学术交流活动，为来自世界各地的专家学者建立了学术交流的优质平台。

协会通过组织并承办技术研讨会与来自全球的学术机构或个人建立良好的合作关系，为各国学者提供互相学习、自由交流的平台，为年轻学者提供机会，使其能够在实践中撰写优秀学术成果、了解学术成果出版的操作流程，从而提升自身以及团队的学术水平。同时为推进和传播管理科学、工程技术等前沿研究提供强有力的支持。

国际管理科学与工程技术协会与多家世界知名出版集团和多位期刊主编建立了良好的合作关系，如学术出版社（Academic Press），施普林格出版社（Springer），美国机械工程师协会（ASME），美国科学出版社（American Scientific Publishing）等出版社。

协会承接国际学术会议举办,国际人才引进,高分学术论文指导,优秀论文推荐发表,论文推广等学术活动。国际管理科学与工程技术协会努力践行以上使命,以加强与各国学术机构之间的合作,促进国际学术交流。

会议主席

Conference Chairman



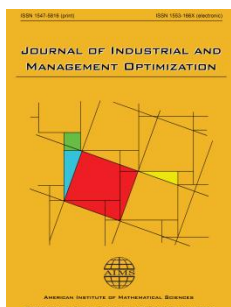
Zhenling Liu

Henan University of Technology, China

Prof. Zhenling Liu is the associate professor at the School of Management, Henan University of Technology and is charge of teaching the courses, including “Quantitative Analysis”, “Comprehensive Experiment on Application of Statistical Analysis Software”, “Econometrics”, “Marketing Research and Decision Making”, and “Frontier of Management”, etc. His research interests focus on energy-economy-environment system and sustainable development. Prof. Liu presided or participated in several projects and has published more than 90 papers in national and international journals and 13 books. He also severs as the associate editor of Journal of Sustainable Science and Management, and the editor of Advances in Industrial Engineering and Management. Prof. Liu has won several awards, including 3 provincial and ministerial science and technology progress awards.

期刊支持

RELATED RENOWNED JOURNALS



会议信息

CONFERENCE INFORMATION

会议时间和方式

Conference Time and Way

- 北京时间 2024 年 5 月 22 日, 14:30-18:00 会议测试

May 22, 2024, 14:30-18:00 (Beijing Time): Conference Rehearsal

- 北京时间 2024 年 5 月 23 日, 9:00-18:00 线上会议

May 23, 2024, 9:00-18:00 (Beijing Time): Online Conference

- 请下载腾讯会议并提前注册账号

Please download VooV Meeting Application on your PC (The official website of VooV Meeting Application: <https://voovmeeting.com/>) and create an account in advance.

- 请各位嘉宾于会议当天提前进入会议室，谢谢！

Please participants join the VooV Meeting in advance on May 23, 2024.

Thanks.

会议入口

Conference entrance

- **会议测试入口/Conference Rehearsal Entrance**

链接:

<https://meeting.tencent.com/dm/kQgNWnwh4yNp>

#腾讯会议: 954-947-912

会议密码: 2024

Link:

<https://meeting.tencent.com/dm/kQgNWnwh4yNp>

Conference ID: 954-947-912

Password: 2024

- **正式会议入口/Online Conference Entrance**

链接:

<https://meeting.tencent.com/dm/wimW384NBUYI>

#腾讯会议: 659-577-215

会议密码: 2024

Link:

<https://meeting.tencent.com/dm/wimW384NBUYI>

Conference ID: 659-577-215

Password: 2024

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