



The 14<sup>th</sup> International Conference on Industrial Engineering  
and Management (ICIEM2022)

# 第十四届工业工程与管理国际 会议手册

## ICIEM 2022 Conference Program



线上会议

Online Conference  
2022 年 6 月 16-17 日  
June 16-17, 2022

<http://iciem.uovl.uk/>  
<http://iciemconf.org/en/>



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## 大会简介/ Introduction

旨在汇集领先的学术科学家、研究人员和研究学者，在工业工程和工业管理的各个方面交流和分享他们的经验和研究成果。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，以展示和讨论工业工程和工业管理领域中最新的创新、趋势和关注点以及遇到的实际挑战和采用的解决方案。由维多利亚大学—伦敦主办，International Association of Management Science & Engineering Technology (IAMSET 艾慕赛特) 承办的“第十四届工业工程与管理国际会议” (The 14th International Conference on Industrial Engineering and Management, 简称 ICIEM2022) 拟定于 2022 年 6 月 16 日-17 日召开互联网线上会议。

本次大会的议题分别为：

- 议题 1：工业互联网
- 议题 2：自动化和控制系统
- 议题 3：工程，电气和电子
- 议题 4：工程：环境
- 议题 5：工程：制造
- 议题 6：运筹学和管理学
- 议题 7：物流工程
- 议题 8：信息系统
- 议题 9：工效学/人因工程学.....

本次会议广泛诚邀国内外高校、科研机构的知名专家、企业界人士及其他相关领域人员参会交流，提供一个扩大业内影响、提高学术认同、促进学术成果转化及科研交流的合作平台。

In order to bring together leading academic scientists, researchers and research scholars all around the world to exchange and share their experience and research results on all aspects of Industrial Engineering and Industrial Management.

It also aim to provide 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 Industrial Management, **The 14th International Conference on Industrial Engineering and Management (ICIEM2022)**, which is organized by University of Victoria - London, co-organized by International Association of Management Science & Engineering Technology (IAMSET), will be held on the Internet during June 16-17, 2022.

The highlights are shown as follows:

- Topic 1: Internet Industry
- Topic 2: Automation & Control Systems
- Topic 3: Engineering, Electrical & Electronic

Topic 4: Engineering, Environmental

Topic 5: Engineering, Manufacturing

Topic 6: Operations Research & Management Science

Topic 7: Logistics Engineering

Topic 8: Information Systems

Topic 9: Human Factor

...

**ICIEM2022** aims to provide a cooperative platform for researchers, practitioners and educators to exchange and share their research results and frontier technology about Biomass Resources with academic scientists, researchers, engineers, academicians as well as industrial professionals from all over the world.

**组织机构 Organization**

● **主办单位**

- 维多利亚大学—伦敦

● **承办单位**

- 国际管理科学与工程协会

● **Host Organizer**

- University of Victoria – London

● **Co-organizer**

- International Association of Management Science & Engineering Technology (IAMSET 艾慕赛特)

- **在线会议入口**

点击链接入会，或添加至会议列表  <https://meeting.tencent.com/dm/7wTeDmCjKGWc>

会议主题：ICIEM 2022-6.16

会议时间：2022/06/16 16:30-21:00 (GMT+08:00) 北京时间

#腾讯会议：815-280-209

会议密码：121100

复制该信息，打开手机腾讯会议即可参与

- **Online conference website entrance**

**Please download the VoovMeeting application here and sign up an account.**

 <https://voovmeeting.com/download-center.html?from=1001>

**Meeting Topic: ICIEM 2022-6.16**

**Conference Time: 2022/06/16 09:30-14:00 (GMT+01:00) London Time**

**Conference ID: 815-280-209**

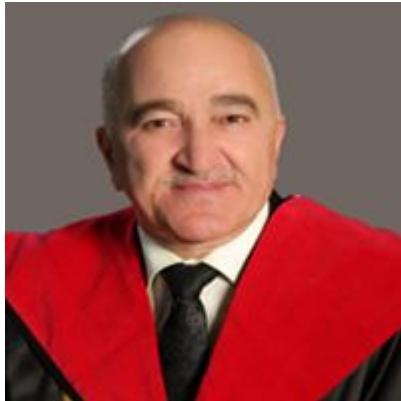
**Password: 121100**

**● 荣誉会议主席 Honorary Chairman****Dr. Wisam Alshaikhli****University of Victoria - London**

Dr. Wisam Alshaikhli is the president of University of Victoria - London, he is also the president of International Federation of Sports Science, he is the director of the Academy of Scientific Research & Training in Britain, he is the Secretary General of Arab Academy of Physical Education and Sport Sciences, member of scientific committees & International scientific (More than 38 Scientific journal), member of the International Federation of Sports Medicine, member of British and European Federation in Sport Medicine, he have attended more than 200 International conferences and scientific workshops, 60 international lectures research in sports medicine and sport injuries, he have more than 300 honor certificates from different countries, he have published more than 120 research papers and 3 books/sports medicine and injuries.



- 会议主席 **Chairman**



**Dr. Rami Al-Hadeethi**

**University of Victoria - London**

An international, award winning Professor of Industrial Technology & Operations Management whose solid understanding of business administration in an engineering context, passion for learning, and consultative leadership style are the driving forces behind a progressively successful 29+ year career. Enjoys inspiring students across the EMEA to achieve their full academic and personal potential. Founder of academic departments, colleges and programmes, and participant in worldwide conferences. Dr. Rami holds PhD and MSc both degrees from well-recognised UK universities and he is the coordinator of Innovative Projects in the field of education, The Oxford Academic Union, Oxford, UK and Industrial Engineering Thematic Leader, Education Society Chapter, IEEE United Kingdom and Ireland Section. He is an Internationally-recognised consultant with a unique prospective on mixing engineering knowledge and administrative abilities in the design, delivery of worldwide training courses and his scientific research efforts have resulted in the publication of 59 papers and three books. Dr. Rami is certified in instruction and e-learning systems and has taught online courses, supervised and examined online individual, group projects and postgraduate theses, and media appearance and interviewed by TV channels.

**国际期刊 International Journals**

ICIEM 组委会鼓励作者通过提交摘要或全文参加会议。会议接收工业工程与工业管理相关的各领域的高质量研究论文。

会议与知名出版商的国际认证期刊合作，会议参与者有机会在这些期刊上提交他们的完整论文进行在线发表。所有投稿都要进行双盲同行评议，投稿结果将取决于同行评审意见。

建议与会者在决定合适的期刊之前，先阅读期刊的范围和目的。会议遵循普遍接受的出版道德规范。

**您所选择的期刊的投稿指南和作者说明将在会后通过电子邮件单独提供。**

包含但不限于以下期刊：

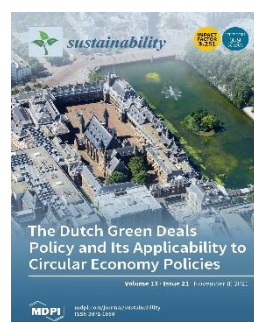
The ICIEM organizing committee encourages authors to participate in the conference by submitting abstracts or full papers. The conference accepts high quality research papers in all fields related to Industrial Engineering and Industrial Management. We are working with internationally accredited journals from renowned publishers and conference participants are provided with the opportunity to submit their full papers for online (closed access) publication in these journals. All supporting journals are subjecting submissions to the double-blind peer-review process. The decision on publication will depend on the peer-review process. Participants are advised to read the journal's scope and aim before deciding the suitable journal. We follow universally accepted ethics on publication. **Guides on submission and author instructions of your preferred journal will be provided separately via an email after the conference.**

Journals include but are not limited to:



**Sustainable Development**

**WILEY**  
**IF: 6.159**



**Sustainability**

**MDPI**  
**IF: 3.251**



Production and Operations Management

WILEY  
IF: 4.965



Journal of Organizational Change Management

Emerald Publishing  
IF: 2.293



Science and Public Policy

Oxford University Press  
IF: 2.725



Operations Research Letters

Elsevier  
IF: 1.154



Journal of Environmental Planning and Management

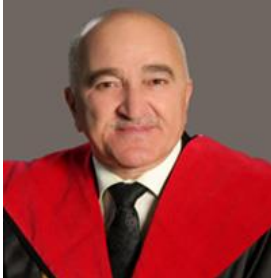
Springer  
IF: 2.735



Asia Pacific Business Review

Taylor & Francis  
IF: 2.361

## 主讲嘉宾 Keynote Speaker

**Rami Al-Hadeethi**, Professor

PhD in Industrial Technology & Operations Management

The coordinator of Innovative Projects in the field of education, The Oxford Academic Union, Oxford, UK and Industrial Engineering Thematic Leader, Education Society Chapter, IEEE United Kingdom and Ireland Section.

His scientific research efforts have resulted in the publication of 59 papers and three books.

Website: <https://www.researchgate.net/profile/Rami-Al-Hadeethi>

**Zhihan Lv** Distinguished Professor**Qingdao university**

Editor-in-Chief of Internet of Things and Cyber-Physical Systems(KeAi). an Associate Editor of 22 journals including ACM Transactions on Multimedia Computing, Communications, and Applications, IEEE Transactions on Intelligent Transportation System, etc.

Leading Guest Editors for 40 special issues including 9 IEEE. Co-Chair or TPC of 50 conferences including ACM MM 2021, ACM IUI 2015-2022.

Website: <http://dsse.qdu.edu.cn/info/1089/2039.htm>

**Ahmad Khasawneh**, Professor, President**Hashemite University of Jordan, Irbid National University**

President Irbid National University.

Professor of Information Systems at the Hashemite University of Jordan.

Dr. Khasawneh holds B.Sc., M.Sc. in Computer Engineering and Automatic Control and Ph.D. in Information Systems Science.



**Yining Liu** Professor

**Guilin University of Electronic Science and Technology**

He is currently a professor in the School of Computer and Information Security of Guilin University of Electronic Science and Technology. A member of IEEE, Chinese Computer Society, Chinese Cryptologic Society, China Privacy Protection Professional Committee, and Guangxi Information Security Society.

Website: <https://www.guet.edu.cn/people2/1170085.html>



**Zhangping Song** Professor

**Xi'an University of Architecture and Technology**

Head of Shaanxi tunnel and underground engineering new technology innovation team; Deputy director of Shaanxi Key Laboratory of geotechnical and underground space engineering; Institute of tunnel and underground structure engineering, Presided over more than 100 vertical and horizontal scientific research projects such as the "12th Five Year Plan" National Science and technology support plan project, the national fund general project, "Western Transportation Project", the Ministry of housing and urban rural development science and technology research project. Won 15 awards for scientific research achievements and 2 national construction methods.

Website: <https://civil.xauat.edu.cn/info/1065/1243.htm>



**Tao Zhang** Associate Professor

**China Agricultural University**

An associate professor at the College of Resources and Environment, China Agricultural University, China.

A Member of the Water Treatment and Reuse Committee of the Chinese Society of Environmental Sciences and a member of the Circular Economy Committee of the Chinese Society of Environmental Sciences.

Website: [http://zihuan.cau.edu.cn/art/2016/11/29/art\\_24900\\_486693.html](http://zihuan.cau.edu.cn/art/2016/11/29/art_24900_486693.html)

口头报告 Oral Presentation



**Liangcai Dong Associate Professor PhD**

**Shanghai Maritime University**

**The Director of the Department of Industrial Engineering  
of the School of Logistics Engineering**



**Lei Pang Associate Professor PhD**

**Yunnan Normal University**

**School of Economics and Management**



**Zhihao An**

**YanTai University**

**School of Economics and Management**



**Yechen Cui Lecturer**

**Henan University of Economics and Law**



**Chunwei Shi**

**Associate professor**

**Liaoning Petrochemical University**

**会议信息 Information****● 在线会议入口**

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**Password: 121100**

**● 会务联系方式 Contact**

Email: [info@iciemconf.org](mailto:info@iciemconf.org); [icieminfo@gmail.com](mailto:icieminfo@gmail.com)

ICIEM Organizing Committee



● **温馨提示 Kindly Reminder**

**各位参会人员**

请发言代表注意自己的发言日期和时间，并提前做好准备。演讲时间 20-25 分钟。提问 5-10 分钟。为防止网络不顺畅，最好录制一份 20-25 分钟的演讲视频备用。

**To all Chairs and Speakers**

**Notification**

Duration of each Presentation:

Restricted speaking time: 20- 25 Minutes of Presentation. There will be a Q&A session about 5-10 minutes in the online conference ICIEM 2022.

In case the network is not very good, we would like that you may record a video of your presentation about 20-25 minutes.

## 会议日程 Schedule

ICIEM 2022 SCHEDULE						
Date	Project	London Time (UTC±1.00)		Beijing Time (UTC/GMT+8.00)		Schedule
16-Jun-22	Opening Ceremony	9:30-10:00	9:30-9:40	16:30-17:00	16:30-16:40	Host: Chunhui HUANG, Host: Menghao LI
			9:40-9:50		16:40-16:50	Dr. Wisam Alshaikhli
			9:50-10:00		16:50-17:00	Dr. Rami Al-Hadeethi
	Keynote Speech	10:00-12:10	10:00-10:30	17:00-19:10	17:00-17:30	Zhihan Lv
			10:30-10:50		17:30-17:50	Dr. Rami Al-Hadeethi
			10:50-11:10		17:50-18:10	Ahmad Khasawneh
			11:10-11:30		18:10-18:30	Yining Liu
			11:30-11:50		18:30-18:50	Zhangping Song (Xu Li)
			11:50-12:10		18:50-19:10	Tao Zhang
	MEAL TIME		12:10-12:30		19:10-19:30	participant
	Oral Presentation	12:30-13:50	12:30-12:50	19:30-20:50	19:30-19:50	Liangcai Dong
			12:50-13:00		19:50-20:00	Lei Pang
			13:00-13:15		20:00-20:15	Zhihao An
			13:15-13:35		20:15-20:35	Yechen Cui
			13:35-13:50		20:35-20:50	Chunwei Shi
	Discussion		13:50--		20:50--	participant
	17-Jun-22	Gratitude				

Schedule	TITLE
Host: Chunhui HUANG, Host: Menghao LI	ICIEM Opening introduction
Dr. Wisam Alshaikhli	Speech from Conference Honorary Chairman
Dr. Rami Al-Hadeethi	Speech from Conference Chairman
Zhihan Lv	Virtual Reality
Dr. Rami Al-Hadeethi	Qualifying Industrial Engineering (IE) Graduates for Industry 5.0 Jobs
Ahmad Khasawneh	Air quality monitoring system based on IOT
Yining Liu	GAN-based Dummy Trajectory Generation Scheme
Zhangping Song	3D visualization platform for multi-information fusion of open-pit mines
Tao Zhang	Thermal conversion and modified biochar / hydrochar sorption to enhance phosphorus recovery from swine manure wastewater: microscopic and spectroscopic investigations
Liangcai Dong	Multi-AGV path planning problem in container yard based on 3D A* algorithm
Lei Pang	Has the two-way direct investment promoted the transformation of the industries from old to new drivers? -- Empirical evidence from Chinese data
Zhihao An	Analysis of the degree of integration between manufacturing and productive service industries in China
Ye Chen Cui	The research on agricultural eco- efficiency in Xinjiang
Chunwei Shi	Ultrasonic desulfurization of amphiphilic magnetic-Janus nanosheets in oil-water mixture system