The 4ᵗʰ International Conference on Applied Mathematics and Information Science

The 14ᵗʰ International Conference on Advanced Management Science

(ICAMIS & ICAMS 2023)

第 4 届应用数学与信息科学国际会议

暨第 14 届高级管理科学国际会议

会议手册

Conference Program

ICAMIS

ICAMS

线上会议

Online Conference

2023 年 11 月 16 日

November 16, 2023

http://icamis.iamset.org/

http://icamsconf.org/

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大会简介/Introduction

旨在汇集领先的学术科学家、研究人员和学者，交流和分享他们在应用数学、信息科学以及高级管理科学等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，以展示和讨论应用数学、信息科学以及高级管理科学等领域中的最新创新、趋势和关注点以及遇到的实际挑战和采用的解决方案。**"第四届应用数学与信息科学国际会议暨第十四届高级管理科学国际会议"**（The 4th International Conference on Applied Mathematics and Information Science & The 14th International Conference on Advanced Management Science，简称 ICAMIS & ICAMS 2023）由 International Association of Management Science & Engineering Technology (IAMSET 艾慕赛特)主办，拟定于 2023 年 11 月 16 日线上召开。

本次大会的议题为（包括但不限于）：

议题 1：应用统计数学

议题 2：人工智能

议题 3：数学分析

议题 4：几何学

议题 5：理论数学

议题 6：软件工程与应用

议题 7：软计算

议题 8：运筹学与管理

议题 9：生产与运营管理

议题 10：金融工程

议题 11：市场营销与管理

议题 12：人力资源管理

议题 13：物流管理

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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 scholars all around the world to exchange and share their experience and research findings in all aspects of Applied Mathematics, Information Science and Advanced Management Science. 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 Applied Mathematics, Information Science and Advanced Management Science. **The 4th International Conference on Applied Mathematics and Information Science & The 14th International Conference on Advanced Management Science (ICAMIS & ICAMS 2023)**, which is organized by International Association of Management Science & Engineering Technology (IAMSET), will be held online on November 16, 2023.

The topics are shown as follows (including but not limited to):

Topic 1: Applied Statistical Mathematics

Topic 2: Artificial Intelligence

Topic 3: Mathematical Analysis

Topic 4: Geometry

Topic 5: Theoretical Mathematics

Topic 6: Software Engineering and Applications

Topic 7: Soft Computing

Topic 8: Operations Research and Management

Topic 9: Production and Operations Management

Topic 10: Financial Engineering

Topic 11: Marketing and Management

Topic 12: Human Resource Management

Topic 13: Logistics Management

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ICAMIS & ICAMS 2023 cordially invites renowned experts from universities and research institutions at home and abroad to participate in this conference, as well as people from the business community and other related fields, and provides a cooperation platform to expand the influence of the industry, improve academic recognition, promote the transformation of academic achievements and scientific research exchange.

组织机构/Organization

- **主办单位 Host Organizer**

国际管理科学与工程技术协会

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

- **会议主席 Conference Chairman**

Prof. 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.

国际期刊/International Journals

　　ICAMIS& ICAMS 组委会鼓励作者通过提交摘要或全文参加会议。会议接收应用数学，信息科学和高级管理科学等领域相关的各个方面的高质量研究论文。

　　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。
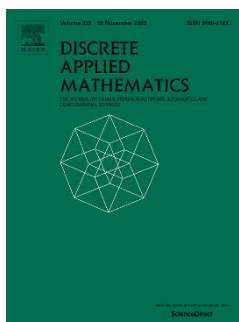
　　包含但不限于以下期刊：

ICAMIS & ICAMS 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 Applied Mathematics, Information Science and Advanced Management Science.

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.
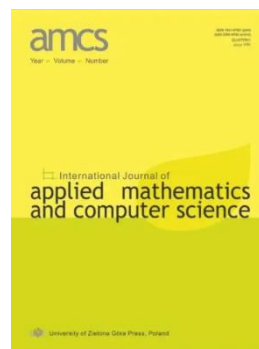
Guides on submission and author instructions of your preferred journal will be provided separately via an email after the conference.

Journals include but are not limited to:

Discrete Applied Mathematics

Elsevier
IF: 1.1

International Journal of Applied Mathematics and Computer Science

Sciendo
IF: 1.9

Asia Pacific Journal of Human Resources

Wiley
IF: 3.2

International Journal of Market Research

Sage
IF: 3.0

Operations Research Letters

Elsevier
IF: 1.1

Operations Research Perspectives

Elsevier
IF: 2.5

Shou Feng, Associate Professor
Harbin Engineering University, China

Prof. Feng Shou is an associate professor, Master Supervisor of Harbin Engineering University, Deputy Director of the Key Laboratory of Advanced Ship Communication and Information Technology of the Ministry of Industry and Information Technology, IEEE member, Senior member of the Chinese Society of Communications, Member of the Imaging Detection and Perception Committee of the Chinese Society of Image and Graphics, peer review expert of the National Natural Science Foundation of China, academic dissertation review expert of the Ministry of Education, Visiting Scholar of Indiana University Bloomington, Guest Editor of Remote Sensing and Member of the editorial board of international Journal Frontiers in Imaging and American Journal of Remote Sensing. He also serves as a reviewer for many authoritative academic journals such as IEEE TIP, IEEE TGRS, IEEE GRSL, and Remote Sensing. In the past three years, he has published 20 academic papers as the first/corresponding author in top journals in the field of Remote Sensing such as IEEE TIP, IEEE TGRS, and Remote Sensing, and 2 papers have been selected as ESI highly cited papers. He also published 6 conference papers in IGARSS and other international conferences, applied for 8 national invention patents as the first inventor, and has 4 patents authorized. The 14th Five-Year Plan monograph of the Ministry of Industry and Information Technology "Intelligent Classification and detection of hyperspectral images" 1. Served as the Branch Chair of IGARSS2020 and IGARSS2021, as a member of the Organizing Committee of IGARSS2023, organized the Community-Contributed Session "CCS.9: Recent Advances in Hyperspectral Image Processing: Methodology and Application ". As a guest editor, I organized 2 special issues in Remote Sensing, TOP journal of Chinese Academy of Sciences.

Liming Zhang, Assistant Professor
Faculty of Science and Technology, University of Macau, China

Dr. Liming Zhang received her B.S. degree in Computer Software at Nankai University, China and M.S. degree in Signal Processing at Nanjing University of Science and Technology, China. She received her PhD degree in image processing at University of New England, Australia. She is currently an assistant professor in Faculty of Science and Technology, University of Macau. Her research interests include Signal processing, Image processing, Computer vision and Multimedia computing. She is dedicated to scientific research work and has made great progress in the fields. She has published over 100 papers, including IEEE TIP,

IEEE SP, CVPR, etc.

Zhen Hua, Assistant Professor
Xi'an Jiaotong-Liverpool University

Dr. Zhen Hua received her PhD degree from the University of Manchester in 2023. She is currently working as assistant professor at Xi'an Jiaotong-Liverpool University. Her research interests focus on computational intelligence, fuzzy logic, fuzzy information modeling, and decision support systems. She has presided or participated in several research projects, and has published 7 papers in high-quality international journals, 1 book and 2 patents. Now Dr. Zhen Hua works as an associate editor for Journal of Data Science and Intelligent Systems and PriMera Scientific Engineering, and a reviewer for several journals such as Information Sciences, Artificial Intelligence and Applications and so on. She is IEEE member.

Thanh Ngo, Senior Lecturer
School of Aviation, Massey University, New Zealand

Dr. Thanh Ngo is the Senior Lecturer of School of Aviation, Massey University, New Zealand. His research interests include Economics, Econometrics, Management, Productivity & performance analysis, Banking studies, Aviation studies, and Sustainability. He has over 20 years of rich research experience and he has published more than 70 journal articles, more than 20 conference articles and 7 book chapters. Dr. Thanh Ngo also serves as Editorial Board Member of PLOS ONE and International Journal of Financial Studies. He is also the Associate Editor of Asian Economic and Financial Review and the Series Editor for several journals.

Elodie Jouny-Rivier, Associate Professor
ESSCA School of Management, France

Dr. Elodie Jouny-Rivier is the associate professor of ESSCA School of Management, France. Her research interests lie in Product co-creation, Crowdsourcing, Services Marketing and Digital marketing. She has more than 10 Peer-reviewed Articles published in related international journals and has more than 20 conference articles. She has rich experience in research activities and she is now the member of editorial review board of International Journal of Consumer Studies and also serves as the Ad-hoc Reviewer for five journals include Décisions Marketing, Revue Internationale PME (RIPME), and Journal of Services Marketing.

Sujani Thrikawala, Principal Academic Staff Member
Waikato Institute of Technology, New Zealand

Dr. Sujani Thrikawala is the Principal Academic Staff Member of Centre for Business and Enterprise (CBE), Waikato Institute of Technology (Wintec | Te Pukenga), New Zealand. Her research interests lie in corporate governance in emerging countries, corporate social responsibility Reporting, bribery and corruption, small business management, and financial disclosures. Dr. Sujani Thrikawala has more than 15 International journal publications and more than 10 conference papers. Notably, her expertise shines through as she occupies the sixth most cited New Zealand author in the "Firm; Bribes; Anti-corruption Measures" category on Elsevier SciVal. Beyond her research and publications, Dr. Thrikawala is an active participant in academic groups and organizations related to her fields of expertise and played roles in them include CAANZ and CPA Australia Liaison at the centre, represent the Wintec Ethics committee, internal and external moderator of various accounting and finance papers, etc. Moreover, she has mentored and supervised numerous postgraduate students, guiding them towards academic excellence. She also serves as Ad hoc reviewer for 9 journals. She had been awarded for many times for her outstanding contributions.

Brandon Randolph-Seng, Professor
College of Business and Entrepreneurship, Texas A&M University-Commerce, United States

Dr. Brandon Randolph-Seng is currently the full professor of Management at Texas A&M University-Commerce. He is also serving as the Editor-in-Chief of Management Decision, a leading business science journal with the distinction of being the oldest and longest-running scholarly publication focused specifically on the area of management. Professor Brandon's current research primarily examines the social, ethical, and cognitive factors in leadership, entrepreneurship and teams. Professor Brandon has rich experience in teaching and consulting. He has 96 publications and conference presentations in the past two decades. He had been awarded for many times for his outstanding contributions.

Jose Alberto Knudsen Gonzalez, Professor
Universidad Central Marta Abreu de las Villas (UCLV), Cuba

Dr. Jose Alberto Knudsen Gonzalez is the Professor of the Department of Industrial Engineering of the Faculty of Mechanical and Industrial Engineering in the area of Logistics and Process Management at UCLV, Cuba; the Visiting Professor at the National University of Engineering, Managua, Nicaragua and the Center for Higher Studies of Isla del Carmen, Mexico; the Advisor at several universities in the State of Miranda in Venezuela from 2009 to 2011. He has participated in more than 34 scientific investigations related to logistics

management, transportation management, and warehousing management. He has published several monographs and memoirs for postgraduate courses taught in Cuba and in other countries. He has published more than 24 articles and scientific contributions as author/co-author in Cuban and foreign journals, as well as he has been a speaker/co-author in more than 33 national and international scientific events held in Cuba and other countries. He is a member of the Academic Committee of the Master in Industrial Engineering. He belongs to the faculty of several masters that are taught at UCLV. He is a member of several Cuban and foreign scientific societies. He currently participates in four (4) and is a leader in two (2) national projects (2021-2024). He has received several recognitions and distinctions for his professional, academic and social work during his working life.

Julia Sidorova, Senior Researcher
Bioinformatics Platform, CIBER, Ministry of Health, Spain

Dr. Julia Sidorova is a senior researcher in service at Bioinformatics Platform, CIBER, Ministry of Health, Spain from 2021. She once served as Assistant Professor at Blekinge Institute of Technology, Sweden, where she was predominantly working with data analytics for industry, Sony, Boeing, Telenor, Ericsson. Her research interests lie in classical data analysis vs deep neural networks, and understanding their suitability or deficiencies. She has published more than 20 papers in JCR Journals and A-rank conferences, 7 books/book chapters, 15 peer reviewed conference articles. Dr. Julia Sidorova is the editorial member of Frontiers in Neurology (Biomarkers) and a senior IEEE member. She also serves as a reviewer for journals such as Computers and Electrical Engineering, IEEE Transactions on Affective Computing, International Journal of Distributed Sensor Networks, etc.

Muhammad Zeeshan Mirza, Assistant Professor
Business School, 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.

Muddassar Sarfraz, Assistant Professor
School of Management, Zhejiang Shuren University, China

Dr. Muddassar Sarfraz is an Assistant Professor at the School of Management, Zhejiang Shuren University, China, and also is a member of the Research Center for Engineering and Management at the Politehnica University of Timisoara, Romania. After completing a prestigious post-doctoral fellowship in business administration at Hohai University's, he has gained considerable experience as a researcher and lecturer at various prominent institutions. Dr. Sarfraz has taught a diverse range of subjects including business research methods, business management, corporate social responsibility, business strategy, and strategic management. His reputation as a keynote speaker at both national and international conferences further highlights his expertise and influence in the academic community. With an impressive publication record, Dr. Sarfraz has contributed over 150 papers to international academic journals and conferences, showcasing his dedication to the advancement of knowledge in his field. In addition to his scholarly contributions, he holds editorial positions as an associate and guest editor for numerous journals, as well as serving on the editorial boards of several others. Dr. Sarfraz's professional affiliations include memberships in the British Academy of Management, Chinese Economists Society, World Economic Association, and American Economic Association. Furthermore, he represents Pakistan as an ambassador for the International MBA program at Chongqing University in the People's Republic of China.

Alireza Goli, Assistant Professor
Department of Industrial Engineering, University of Isfahan, Isfahan, Iran

Alireza Goli was born in Isfahan, Iran, in 1989. He received his Bachelor and Master Degree in Industrial Engineering from Golpayegan University of Technology (Iran, 2013) and Isfahan University of Technology (Iran, 2015) respectively. Then, he received a Ph.D. degree in Industrial Engineering from Yazd University (Iran, 2019). Now, he is an assistant professor at Isfahan University which is one of the famous universities in Iran. He has published more than 60 papers in high-quality journals and conferences and has been serving as a reviewer in many reputed journals such as IEEE Transactions on Fuzzy System, Journal of Supercomputing, Annals of Operations Research and Expert System with Application. He has reached an excellent reviewer in Publons in 2019. He is working as a member of the editorial board in different journals like Journal of Applied research in Industrial Engineering, and International Journal of Applied Optimization Studies. His current research interests include supply chain management, disaster relief optimization, meta-heuristic algorithms, robust optimization, artificial intelligence, portfolio management.

Farooq Akhtar, Senior Lecturer

Department of Computer Science & Information Technology, University of Kotli AJ&K, Pakistan

Mr. Farooq Akhtar is a PhD Researcher in Multi-Objective Evolutionary Optimization at the North University of China, and a Senior Lecturer in the Department of Computer Science & Information Technology, University of Kotli AJ&K, Pakistan. Previously, he served as Research Associate at the Capital University of Science & Technology Islamabad, Pakistan & Lecturer at the University of AJ&K, Pakistan. He has published 5 papers in international journals and conferences. Mr. Farooq Akhtar serves as a reviewer for Association for Computing Machinery (ACM) and Elsevier. He is also the member of ACM.

会议信息/Information

● 会议时间和方式

2023 年 11 月 15 日　13:30-17:30　会议测试

2023 年 11 月 16 日　09:00-18:00　线上会议

请下载腾讯会议并提前注册账号；

会议测试期间参会者可随时通过会议测试 ID 和入会密码进入会议室进行测试，以确保能正常进入会议室并熟悉操作流程。

请各位嘉宾在会议当天提前进入会议室，谢谢！

● **Conference Time and Way**

November 15, 2023, 13:30-17:30 (Beijing Time): Conference Testing

November 16, 2023, 9:00-18:00 (Beijing Time): Online Conference

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

Please participants log in anytime and test whether you can join the VooV Meeting properly and familiarize yourself with the operation process during the conference testing.

Please participants join the VooV Meeting in advance on November 16, 2023. Thanks.

● 会议测试入口

点击链接入会，或添加至会议列表：

https://meeting.tencent.com/dm/lCFJCQM8bkt9

会议主题：ICAMIS & ICAMS 2023-Conference Testing

会议时间：2023/11/15 13:30-17:30 (GMT+08:00)北京时间

#腾讯会议：403-739-558

会议密码：2023

● **Conference Testing Website Entrance**

Please download the VOOV Meeting Application and sign up an account.

https://meeting.tencent.com/dm/lCFJCQM8bkt9

Meeting Topic: ICAMIS & ICAMS 2023-Conference Testing

Conference Time：2023/11/15 13:30-17:30 (GMT+08:00) Beijing Time

Conference ID: 403-739-558

Password: 2023

Copy the information, open the VOOV Meeting Application to attend the conference.

● **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/QsxXD3qZeJkI

会议主题：ICAMIS & ICAMS 2023-Online Conference

会议时间：2023/11/16 09:00-18:00 (GMT+08:00) 北京时间

#腾讯会议：517-567-437

会议密码：2023

复制该信息，打开手机腾讯会议即可参与

● **Online Conference Website Entrance**

Please download the VOOV Meeting Application and sign up an account.

https://meeting.tencent.com/dm/QsxXD3qZeJkI

Meeting Topic: ICAMIS & ICAMS 2023-Online Conference

Conference Time：2023/11/16 09:00-18:00 (GMT+08:00) Beijing Time

Conference ID: 517-567-437

Password: 2023

Copy the information, open the VOOV Meeting Application to attend the conference.

● **会务联系方式 Contact**

Email: icamisinfo@163.com

Email: icams@iamset.org

Mobile No: +86-19139855788

ICAMIS & ICAMS Organizing Committee

温馨提示/**Kindly Reminder**

● 温馨提示

各位参会人员

请发言代表注意自己的发言日期和时间，并提前作好准备。演讲时间 30 分钟。提问 5-10 分钟。为防止网络不顺畅，最好录制一份 30 分钟左右的演讲视频备用。

● **Kindly Reminder**

To all Chairs and Speakers

Please pay attention to the date and time of your speech and make preparation in advance. Restricted speaking time: 30 Minutes of Presentation. There will be a Q&A session about 5-10 minutes in the online conference ICAMIS&ICAMS 2023. In case the network is not very good, we would like that you may record a video of your presentation about 30 minutes.

会议日程/Schedule

ICAMIS&ICAMS 2023 SCHEDULE				
Date	**Project**	**Beijing Time (GMT+8.00)**	**Schedule**	**TITLE**
Nov. 15	Conference Testing	13:30-17:30	Conference Testing	
Nov. 16	Keynote Speech	9:00-11:55	9:00-9:05 · Host: Judy Host: Annie	ICAMIS & ICAMS 2023 Conference Opening Introduction
			9:05-9:10 · Prof. Zhenling Liu	Speech from Conference Chairman
			9:10-9:45 · Dr. Thanh Ngo	Managing Illicit Drugs – The Role of Money Laundering Policy in the International Cocaine Market
			9:45-10:10 · Dr. Sujani Thrikawala	Walking the Tightrope: Political Connection, Environmental Disclosures, and Greenwashing of Firms in Developing Nation
			10:10-10:35 · Prof. Shou Feng	Machine Learning Methods for Remote Sensing Image Change Detection
			10:35-11:00 · Prof. Jose Alberto Knudsen-Gonzalez	How to Improve the Operation of Port Logistics Chains
			11:00-11:25 · Prof. Brandon Randolph-Seng	How to Get Published
			11:25-11:55 · Prof. Liming Zhang	A New Sparse Learning Method – Adaptive Fourier Decomposition (AFD) and Its Applications
	MEAL TIME		11:55-13:30 · Meal Time	

			13:30-13:45	Prof. Zhen Hua	
Keynote Speech		13:30-16:00	13:45-14:05	Prof. Muhammad Zeeshan Mirza	Safeguarding Trust: Exploring the Impact of Cybersecurity Measures on Employee's Confidence in Organizations
			14:05-14:30	Mr. Farooq Akhtar	Surrogate-Assisted Evolutionary Optimization
			14:30-14:55	Prof. Alireza Goli	Approximate Optimization in Aggregative Production Planning
			14:55-15:10	Prof. Muddassar Sarfraz	Toward a New Understanding of Environmental and Financial Performance through Corporate Social Responsibility, Green Innovation, and Sustainable Development
			15:10-15:35	Dr. Julia Sidorova	Classical and Deep Learning Based Survival Analysis
			15:35-16:00	Prof. Elodie Jouny-Rivier	Customers' Learning Process during Product Customization: The Case of Online Configuration Tool Kits
	Discussion		16:00--	Participants	ICAMIS & ICAMS Closing Ceremony