

ICAI 信息与智能国际会议

2025 INTERNATIONAL CONFERENCE ON
ARTIFICIAL INTELLIGENCE AND INFORMATION (ICAI2025)

27-30 September, 2025 | Xi'an, China

CALL FOR PAPERS

CONFERENCE INTRODUCTION

Informatization and intellectualization are the innovative engines of new quality productive forces. The development in the fields of information and intelligence is the fundamental support for promoting global scientific and technological innovation and industrial upgrading, which is of great strategic significance. In order to present high - level research results in the fields of information and intelligence, support the growth of outstanding academic talents, and promote international academic exchanges, Xidian University has specially founded *International Conference on Artificial Intelligence and Information (ICAI)*.

The 2025 International Conference on Artificial Intelligence and Information(ICAI2025), with the theme of "Interdisciplinary Integration and Intelligent Iteration", aims to continuously give full play to the university's comparative advantages and resource endowments in the fields of information and intelligence, so as to provide a platform for global scientists and entrepreneurs to exchange experiences and pool their wisdom to tackle key problems together, and expanding the "circle of friends" of mutual communication and integration between the academic and industrial circles. The conference contributes to solving the "bottleneck" problems in the global information and intelligence field and promote the leapfrog development of the global digital - intelligent industry.

CONFERENCE COMMITTEE

CONFERENCE CHAIRS:

- Xiaojing Zheng / Member of CAS, Xidian University
- Baoyan Duan / Member of CAS, Xidian University
- Yue Hao / Member of CAE, Xidian University

CONFERENCE CO-CHAIR:

- Xinbo Gao / Xidian University

INTERNATIONAL COMMITTEE CHAIRS:

- Zhonglin Wang / Foreign Member of CAS, Chinese Academy of Science
- Xuemin Shen / Foreign Member of CAE, University of Waterloo
- Qiang Chen / IEEE Fellow, Member of EAI, Tohoku University

TECHNICAL PROGRAM COMMITTEE CHAIR:

- Zan Li / IEEE Fellow, Xidian University
- Tiejun Cui / Member of CAS, IEEE Fellow, Southeast University

TECHNICAL PROGRAM COMMITTEE CO-CHAIRS:

- Jincheng Zhang / Xidian University
- Hongwei Liu / Xidian University
- Quan Wang / Xidian University

ORGANIZING COMMITTEE MEMBERS:

- Qingyang Ji / Xidian University
- Liqiang Mao / Xidian University
- Gushun Cai / Xidian University
- Cheng Deng / Xidian University
- Bo Lin / Xidian University
- Junbo Zhang / Xidian University
- Cong Tian / Xidian University
- Lei Yu / Xidian University
- Long Li / Xidian University
- Haitao Yu / Xidian University
- Yulong Shen / Xidian University
- Guang Han / Xidian University
- Xiaoyan Zhu / Xidian University

SYMPOSIUM TPC CHAIRS:

- Efin Zelmanov / Fields Medal Winner, Member of the NAS, Southern University of Science and Technology
- Dapeng Yu / Member of CAS, Southern University of Science and Technology
- Dengguo Feng / Member of CAS, University of Chinese Academy of Sciences
- Tingwen Huang / IEEE Fellow, Member of EAS, Shenzhen Institute of Technology
- Robert H. Deng / IEEE Fellow, Singapore Management University,
- Yi Huang / IEEE Fellow, University of Liverpool
- LUK Kwai Man / IEEE Fellow, City University of Hong Kong
- Yiu-ming Cheung / IEEE Fellow, Hong Kong Baptist University
- Witold Pedryz / IEEE Fellow, Royal Canadian Academy Of Sciences
- Andrew Forbes / Fellow of the SAAS, University of the Witwatersrand, South Africa
- Yunsong Li / Xidian University
- Bo Chen / Xidian University
- Hongtao Su / Xidian University
- Min Sheng / Xidian University
- Xinghua Li / Xidian University
- Jinshan Ding / Xidian University
- Ying Liu / Xidian University
- Xiaohua Ma / Xidian University
- Xuefeng Zheng / Xidian University
- Jiangtao Cui / Xidian University
- Hui Li / Xidian University
- Biao Hou / Xidian University
- Wen Jiang / Xidian University
- Bin Zi / Xidian University
- Jin Huang / Xidian University
- Congsi Wang / Xidian University
- Feng Zhou / Xidian University
- Lixin Guo / Xidian University
- Huailiang Xu / Xidian University
- Li Yang / Xidian University
- Mengdao Xing / Xidian University
- Zhongliang Wang / Xidian University
- Lijun Bo / Xidian University
- Yinghui Quan / Xidian University
- Ke Jin / Xidian University
- Lixin Hao / Xidian University
- Jian Chai / Xidian University
- Gang Li / Xidian University
- Fuqi Shi / Xidian University
- Huilin Chen / Xidian University

SPECIAL SYMPOSIUM

SYMPOSIUM 1:

INFORMATION AND COMMUNICATION ENGINEERING

Topics:

- Cryptography and Data Security
- Network Security
- Artificial Intelligence Security
- Intelligent Signal Processing and Learning
- Fundamental Theories in Information and Communications Engineering
- AI Technologies in Information and Communications Engineering
- Target Detection and Recognition
- Intelligent Radar Signal Processing
- AI Enabled Communication and Networking
- Integration of Communication, Sensing and Computing
- Next Generation Wireless Communication and Network
- IoT and Ubiquitous Connectivity
- Electromagnetic Cognition and Communication

SYMPOSIUM 2:

ELECTRONIC SCIENCE AND TECHNOLOGY

Topics:

- Microwave and Millimeter wave Circuit and System
- Antenna Theory and Technology
- Electromagnetic Metamaterials
- High-Performance Antenna Technology
- Metamaterial and Metasurface
- Electromagnetic Information Technology
- Semiconductor Devices and Integrated Circuits

SYMPOSIUM 3:

COMPUTATIONAL INTELLIGENCE AND INFORMATION SECURITY

Topics:

- Advanced Computing
- Intelligent Software
- Intelligent Perception and Advanced Computing
- Emerging Data Security Technologies

SYMPOSIUM 4:

ELECTRONIC MACHINERY AND AUTOMATION

Topics:

- Theory and Technology on Electronic Machinery
- High-performance Electronic Equipment
- Robotic Assembly and Control of Electronic Equipment

SYMPOSIUM 5:

PHYSICS, OPTOELECTRONICS, MATERIALS AND SPACE ENGINEERING

Topics:

- Intelligent Perception of Optoelectronic Information under Complex Environments
- Electronic Material and Photoelectric Effects
- Electronic Materials and Microsystems
- Smart Materials and Structures
- Photon Manufacturing and Sensing
- Ultrafast Strong Field Atomic Molecular Spectroscopy and Applications
- Optoelectronic Integration and Systems
- Intersection of Remote Sensing Science and AI
- Electrocatalysts for Energy and Environment: Going Beyond Single Atom Catalysts
- Quantum Information and Computer Technology
- Aerospace Vehicle Information Transmission
- Space Domain Awareness and Information Warfare
- Deep Space Exploration and Big Data Analytics
- Cross-Domain Intelligent Flight

SYMPOSIUM 6:

MATHEMATICS, LIFE SCIENCE, INFORMATION MECHANICS AND PERCEPTION

Topics:

- Financial Statistical Modeling and Innovative Applications under Intelligent Information Fusion
- Post Quantum Cryptography Theory and Applications
- Efficient Numerical Methods in Scientific Engineering Computation and Interdisciplinary Applications
- Mathematical Methods of Artificial Intelligence
- Machine Learning and Mechanics
- Nonlinear Dynamics and Intelligent Control
- Sensors and Integrated Circuits
- Intelligent Diagnosis and Treatment Materials
- Advanced Medical Imaging

SYMPOSIUM 7:

INTELLIGENT AGE AND SOCIAL DEVELOPMENT

Topics:

- Metaphysics of General Artificial Intelligence
- The Intersection of Information Science and Philosophy
- Post Humanism and AI
- Data asset management
- The Intelligent Era and New Driving Forces for Economic Development
- Business Intelligence and Management
- Data governance and Intelligent Intelligence

FULL PAPER SUBMISSION

1. Please prepare the full paper according to below requests.

- The document should be in English and should not exceed five double-column, double-spaced pages (excluding references).
- All authors should prepare full versions of papers in PDF or DOC format.
- Papers have to consist of at least four pages, including text, references, tables, and figures.
- Submissions to ICAI 2025 have to not be already published or under review at another archival conference or journal.
- Papers on arXiv do not violate this rule as long as the submitted paper does not cite them.
- Submitting a paper to the conference means that if the paper is accepted, at least one author will complete regular registration and attend the conference to present the paper.

PUBLICATION

The accepted papers passed through the peer-reviewed process after proper registration and presentation will be published into conference proceedings, which will be submitted to be indexed by EI compendex and Scopus.

In addition, excellent conference papers can be invited to submit to a special issue of the Journal of Information and Intelligence for official publication after expansion.

TECHNOLOGY PRODUCTS EXHIBITION

ICAI invites technology enterprises and research institutes from the fields of artificial intelligent and information technology to participate in the exhibition to display technical products.

IMPORTANT TIME

Full Paper Submission Deadline	July 20, 2025
Acceptance Notification Deadline	August 20, 2025
Camera-Ready Paper Submission Deadline	September 5, 2025
Conference Dates	September 27-30, 2025

THE ICAI AWARDS

1. ICAI YOUNG SCIENTIST AWARDS

Established to recognize and honor young scientists who have made significant innovative contributions in the fields of information and intelligence, driving disciplinary progress.

2. ICAI TOP 10 ADVANCES IN THE FIELD OF INFORMATION AND INTELLIGENCE

This selection highlights the year's most impactful breakthroughs in information and intelligence, celebrating major achievements, inspiring technological innovation, fostering industry-academia-research collaboration, and recognizing the most influential research advances, technological developments, and industrial applications.

3. ICAI PAPER AWARDS

- Best Paper Awards
- Best Student Paper Awards

4. ICAI BEST ORGANIZER AWARD

This award honors individuals or teams for their exceptional contributions to the successful execution of the ICAI.



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