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Xingwen Liu, Southwest Minzu University, Chengdu, China  
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Lu Yang, University of Electronic Science and Technology of China, Chengdu, China  
Dan Zhao, University of Electronic Science and Technology of China, Chengdu, China

### Local Arrangements Chairs

Zhenlei Chen, Wei Huang, Jinliang Shao, and Hanmin Sheng, University of Electronic Science and Technology of China, Chengdu, China

### Secretariat

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### Website

<https://conference.cs.cityu.edu.hk/icist>

## Call for Papers

Sponsor: University of Electronic Science and Technology of China

Co-Sponsor: City University of Hong Kong

Technical co-sponsor: IEEE Systems, Man and Cybernetics Society

The 14th International Conference on Information Science and Technology (ICIST 2024) will be held in Chengdu, China during December 6-9, 2024. Situated in southwestern China, the conference site features rich cultural heritages and spicy local foods. Following the successes of previous events, ICIST 2024 aims to provide a high-level international forum for scientists, engineers, and educators to present state-of-the-art research and applications in related fields. The conference will feature preconference, tutorials, plenary speeches given by world-renowned scholars, regular sessions with broad coverage, and special sessions focusing on popular topics and pre-conference tutorials/workshops to warm up the main event.

### Call for Papers and Special Sessions

Prospective authors are invited to contribute high-quality papers to ICIST 2024. In addition, proposals for special sessions within the technical scope of the conference are solicited. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers on special focused topics. Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing special sessions are invited to submit formal proposals to ICIST 2024. A special session proposal should include the session title, a brief description of the scope and motivation, names, contact information, and brief biographical information on the organizers.

### Topic Areas

Topics of contributing papers include, but are not limited to, the following areas:

#### *Computer Science and Engineering*

Computer networks, computer vision, pattern recognition, virtual, reality, parallel and distributed computing, high-performance computing, artificial intelligence, computer graphics, big data, cloud computing, database management systems, mobile agent computing, quality of services and communication protocol, mobile computing for e-commerce, cryptography and information security, scientific and engineering computing, hybrid computational methods, data visualization and virtual reality, web- and grid-based computing and simulation, possibility theory, Bayes network and hidden Markov models, computational intelligence, granular computing

#### *Control and Automation*

Autonomous systems, linear and nonlinear control, robust control, learning and adaptive control, intelligent control, optimization-based and optimal control, model predictive control, fault detection and identification, hybrid intelligent systems, neural control, fuzzy logic control, networked control, industrial automation, process control, robot control, mechatronic systems, vehicle control systems, intelligent transportation systems, environmental monitoring and control, intelligent manufacturing systems, microprocessor-based control, motor control, power control, vehicle control, aerospace control applications.

#### *Signal Processing and Telecommunications*

Adaptive filtering & signal processing, audio/speech processing and coding, compressive sensing and sparse representation, higher-order spectral analysis, nonlinear & blind signal processing, neural signal processing, component analysis, array signal processing, parallel and distributed processing, time series analysis, multimedia signal processing, design and implementation of signal processing systems, DSP Implementations and embedded systems, image and multidimensional signal processing, image processing & understanding, multimedia communications, next-generation wireless/wireline communications, communication signal processing, modulation and channel coding, network coding, sensor networks

#### *Bioinformatics and Biomedical Engineering*

Microarray data analysis, gene regulation, network, and pathway analysis, identification and classification of genes, protein structure prediction, next-generation sequencing and metagenomics, protein, DNA/RNA structure, function, and interactions, functional genomics and proteomics, molecular evolution and phylogeny, neuroinformatic, brain-computer interface, clinical engineering, rehabilitation engineering, neural engineering, biomedical signal analysis and modeling, bio-imaging, sensing, and data fusion, biomarker discovery, health informatics, healthcare data acquisition, analysis, and modeling, biomedical data knowledge extraction, biomedical data integration, modeling, and preprocessing, biological data mining, knowledge sharing, visualization, and knowledge utilization, biomedical data mining systems and computing platforms, electronic health record acquisition, analysis, and decision support, high performance computing for biomedical data analysis, smart clinical diagnosis and decision systems

### Paper Submission

Authors are invited to submit full-length papers (the nominal number of pages is 10) by the submission deadline through the online submission system. Special session organizers are also invited to enlist six or more papers with cohesive topics to form special sessions. The submission of a paper implies that the paper is original and has not been submitted under review or is not copyright-protected elsewhere and will be presented by an author if accepted. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. The authors of accepted papers will have an opportunity to revise their papers and take into consideration the referees' comments and suggestions. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Selected high-quality papers will be included in several journal special issues.

### Important Dates

Special session proposals deadline.....July 1, 2024  
Paper submission deadline..... August 1, 2024  
Notification of acceptance.....September 1, 2024  
Camera-ready copy and author registration.....October 1, 2024

