12th International Conference on Information Science and Technology

October 14-16, 2022   Kaifeng, Henan, China

General Chairs
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Jun Wang, City University of Hong Kong, Hong Kong, China

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Special Sessions Chairs
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Dong Wang, Dalian University of Technology, Dalian, China
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Tutorials/Workshops Chairs
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Hai Huan, Nanjing University of Information Science and Technology, Nanjing, China
Yang Liu, Henan University, Kaifeng, Henan, China
Shaofu Yang, Southeast University, Nanjing, China

Local Arrangements Chair
Yadi Wang, Henan University, Kaifeng, Henan, China
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Call for Papers

Sponsor and co-sponsors: Henan University, City University of Hong Kong, and Huanghe Science and Technology College
Technical co-sponsor: IEEE Systems, Man and Cybernetics Society

The 12th International Conference on Information Science and Technology (ICIST 2022) will be held in Kaifeng, Henan, China during October 14-16, 2022 within the period of the Chrysanthemum Culture Festival. Situated in central China, the conference site features historical heritages in the ancient capital in Song Dynasty over a thousand years ago. Following the successes of previous events, ICIST 2022 aims to provide a high-level international forum for scientists, engineers, and educators to present the state of the art of 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 post-conference workshop.

Call for Papers and Special Sessions

Prospective authors are invited to contribute high-quality papers to ICIST 2022. In addition, proposals for special sessions within the technical scopes of the conference are solicited. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers in 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 2022. 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, and cloud computing, data base 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
Micro-array 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 (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 consideration of the referees' comments and suggestions. All accepted papers are expected to be included in IEEE Xplore and indexed by EI. Selected high-quality papers will be included in several journal special issues.

Important Dates

Special session proposals deadline………………………………………………………………………………....June 1, 2022
Paper submission deadline…………………………………………………………………………………...............July 1, 2022
Notification of acceptance………………………………………………………………………...…………………August 1, 2022
Camera-ready copy and author registration………………………………………………………...…………...September 1, 2022