

10th International Conference on Information Science and Technology

July 25-31, 2020

Bath, London, Plymouth, UK



Call for Papers

Sponsor: IEEE Systems, Man and Cybernetics Society Portsmouth Chapter

Co-sponsors: University of Bath and City University of Hong Kong

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

The 10th International Conference on Information Science and Technology (ICIST 2020) will be held in Bath, London, and Plymouth in England, United Kingdom during July 25-31, 2020. Situated in southern England, the conference sites feature historical cities and beautiful coastal lines. Following the successes of previous events, ICIST 2020 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 2020. 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 2020. 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, neuroinformatics, 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. The Proceedings has been contracted to be included in IEEE Xplore Digital Library and will be submitted for EI indexing.

Important Dates

Special session proposals deadline.....	February 15, 2020
Paper submission deadline.....	March 15, 2020
Notification of acceptance.....	April 15, 2020
Camera-ready copy and author registration.....	May 15, 2020

General Chairs

Honghai Liu, University of Portsmouth, Portsmouth, UK
Jun Wang, City University of Hong Kong, Hong Kong

Organizing Chairs

Zhaojie Ju, University of Portsmouth, Portsmouth, UK
Charlie Yang, University of West England, Bristol, UK
Dingguo Zhang, University of Bath, Bath, UK

Program Chairs

Peng Li, Nanjing University of Information Science and Technology, Nanjing, China
Yingjie Yang, De Montfort University, Leicester, UK
Jing Zhou, University of Agder, Kristiansand, Norway

Special Sessions Chairs

Jianbin Qiu, Harbin, Institute of Technology, Harbin, China
Zhijun Zhang, South China University of Technology, Guangzhou, China

Tutorial and Workshop Chairs

Xinyang Li, Imperial College London, London, UK
Jian Wan, University of Plymouth, Plymouth, UK

Publicity Chairs

Min Han, Dalian University of Technology, Dalian, China
Tingwen Huang, Texas A&M University – Qatar, Doha, Qatar
Yanan Li, Sussex University, Brighton, UK
Zhigang Zeng, Huazhong University of Science and Technology, Wuhan, China
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Publications Chairs

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Jin Hu, Chongqing Jiaotong University, Chongqing, China
Man-Fai Leung, Open University of Hong Kong, Hong Kong

Registration Chairs

Shenshen Gu, Shanghai University, Shanghai, China
Qingshan Liu, Southeast University, Nanjing, China
Zhenyu Lu, Nanjing University of Information Science and Technology, Nanjing, China

Local Arrangements Chairs

Uriel Martinez Hernandez, University of Bath, Bath, UK
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