

# The 26<sup>th</sup> IEEE International Conference on Automation and Computing (ICAC'20)

3<sup>rd</sup>-5<sup>th</sup> September 2020, University of Portsmouth, Portsmouth, UK

## Call for Papers

### General Chair:

Hui Yu  
University of Portsmouth, UK

### General Co-Chairs:

Guofu Ding  
Southwest Jiaotong University,  
China  
Huijian Han  
Shandong University of Finance  
and Economics, China

### Program Chair:

Chenguang Yang  
University of the West of England,  
UK

### Awards Chair:

Xiangdong Ma  
Lancaster University, UK

### Workshop Chair:

Jingjing Jiang  
Loughborough University, UK

### Publicity Chair:

Hui Yu  
University of Portsmouth, UK

### Finance Chair:

Hong Yue  
University of Strathclyde, UK

### Publication Chairs:

Jing Wang  
Sheffield Hallam University, UK  
Wenyan Wu  
Birmingham City University, UK

### Local Committee:

Ya Huang (Chair),  
Linda Yang (Co-chair),  
Mark Xu, Hongjie Ma  
University of Portsmouth, UK

### Organiser

The Chinese Automation and  
Computing Society in the UK

### Sponsors

IEEE System, Man and  
Cybernetic Society TC on  
Intelligent Systems to Human-  
aware Sustainability, and  
IEEE Robotics and Automation  
Society TC on Collaborative  
Automation on Flexible  
Manufacturing



(pending)

### Conference Theme:

## System Intelligence through Automation and Computing

**AIMS:** The aims of the conference are to provide a forum for scientists, engineers, scholars and students to exchange ideas and update technical knowledge, as well as to provide a platform where joint research programmes can be formulated for mutual benefit. The conference welcomes participations and contributions from those involved in both theoretical research and practical applications of all aspects of automation and computer science. In addition to parallel technical sessions, there will be plenary sessions.

**SCOPE:** The scope of the conference covers a broad spectrum of areas with multi-disciplinary interests in the fields of automation, control engineering, computing and information systems, ranging from fundamental research to real-world applications. The conference welcomes the submission of papers in the nature of original research, technical review and tutorial from following, but not limited to, areas:

- Artificial Intelligence
- Autonomous Systems and Sensor Integration
- Big Data and Knowledge Engineering
- Communications and Networks
- Computer Architecture
- Computer Graphics and Visualization
- Control Methodologies and Applications
- Digital Manufacturing and Enterprise Technologies
- Flexible Manufacturing and Computer-integrated Manufacturing
- Human Computer Interaction
- Information and Network Security
- Information Technology and Cloud Computing
- Intelligent Machine Interface Design
- Machine Vision and Image Processing
- MEMS and Micro Devices
- Metrology and System Reliability
- Modelling and Simulation
- Multimedia Systems and Applications
- Networked Control
- Neural Networks, Fuzzy Logic, Genetic Algorithms, and Machine Learning
- Non-destructive Testing and Condition Monitoring
- Optimisation and Decision Making Support
- Power, Energy and Industry Applications
- Process Modelling, Control and Optimal Design
- Robot Control and Intelligent Sensors
- Robust and Adaptive Control
- Software Testing and Reuse
- Supply Chain and Logistics
- System Diagnosis and Identification
- Systems Engineering
- Virtual Reality and Augmented Reality
- Wireless Sensor Networks

**SUBMISSIONS:** Papers should describe the original work with focused details. It should be no more than 6 pages (A4 paper) with IEEE conference paper format. The conference details and the paper template for ICAC'20 are available on the conference web site. The first page of each paper should include the title of the paper, an abstract with no more than 200 words, up to 5 key words, authors' name (s), complete mailing addresses, and email address for correspondence. Electronic form of submission, in Word or PDF, is acceptable and preferred. With the technical co-sponsorship of IEEE Systems, Man, and Cybernetics Society and IEEE Robotics & Automation Society (pending), all the accepted conference papers will be held in *IEEE Xplore* so EI indexed. Authors of selected papers will be invited to submit extended article versions to special issues of *International Journal of Automation and Computing* (<http://www.ijac.net>), *Systems Science & Control Engineering* (<https://www.tandfonline.com/loi/tssc20>) and *IET Cognitive Computation and Systems* (<https://digital-library.theiet.org/journals/ccs>). The ICAC'19 Proceedings has been published in *IEEE Xplore* (<https://ieeexplore.ieee.org/xpl/conhome/8891805/proceeding>) since November 2019.

**BEST STUDENT PAPERS:** Papers with the first author being PhD students are eligible for Best Student Paper Awards. The authors shall clearly indicate whether their papers are qualified for the awards in submission. The best papers will be assessed by a panel based on academic significance and presentation performance, and award certificates will be presented to the authors in the closing ceremony.

### IMPORTANT DATES

Paper submission deadline-----31 May 2020  
Notification of acceptance -----15 June 2020  
Camera-ready copy due -----30 June 2020

### SUBMISSION

<https://cmt3.research.microsoft.com/ICAC2020>

For detailed up-to-date information, please visit the ICAC'20 conference website at:

<http://www.cacsuk.co.uk/index.php/conferences>