

# The 24th IEEE International Conference on Automation and Computing (ICAC'18)

6-7 September 2018, Newcastle University, Newcastle upon Tyne, UK

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## Organiser

The Chinese Automation and  
Computing Society in the UK

## Sponsors

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## Call for Papers

### Conference Theme:

### Improving Productivity 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
- Information and Network Security
- Non-destructive testing, evaluation and condition monitoring
- Autonomous Systems and Sensor Integration
- Information Technology and Cloud Computing
- Optimisation and Decision Making Support
- Big Data and Knowledge Engineering
- Intelligent Machine Interface Design
- Process Modelling, Control and Optimal Design
- Communications and Networks
- Machine Vision and Image Processing
- Robot Control and Intelligent Sensors
- Computer Architecture
- MEMS and micro devices
- Robust and Adaptive Control
- Computer Graphics and Visualization
- Metrology and System Reliability
- Software Testing and Reuse
- Control Methodologies and Applications
- Modelling and Simulation
- Supply Chain and Logistics
- Digital Manufacturing and Enterprise Technologies
- Multimedia Systems and Applications
- System Diagnosis and Identification
- Flexible Manufacturing and Computer-integrated Manufacturing
- Networked Control
- Systems Engineering
- Human Computer Interaction
- Neural Networks, Fuzzy Logic, Genetic Algorithms, and Machine Learning
- 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'18 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 UK & Ireland Control Systems Chapter, 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>) and *Systems Science & Control Engineering* (<http://www.tandfonline.com/loi/tssc20>).

**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----- 30 April 2018  
Notification of acceptance----- 31 May 2018  
Camera-ready copy due----- 30 June 2018

### SUBMISSION

<https://cmt3.research.microsoft.com/ICAC2018>

For detailed up-to-date information, please visit the ICAC'18 conference website at:

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

[https://www.ieee.org/conferences\\_events/conferences/conferencedetails/index.html?Conf\\_ID=43870](https://www.ieee.org/conferences_events/conferences/conferencedetails/index.html?Conf_ID=43870)