

The 20th International Conference on Automation and Computing (ICAC'14)

12-13 September 2014, Cranfield University, Bedfordshire, MK43 0AL, UK

Conference Chair

Yi Cao
Cranfield University

Conference Co-Chair

Liyun Lao
Cranfield University

Technical Committee Chair

Danie Auger
Cranfield University

Program Chair

Xichun Luo
University of Strathclyde

Publicity Chair

Dayou Li
University of Bedfordshire

Financial Chair

Lili Yang
Loughborough University

Local Organisation Committee members

Yi Cao
Liyun Lao

Organiser

The Chinese Automation and Computing Society in the UK



Technical Co-Sponsor

IEEE Control Systems Society United Kingdom and Republic Ireland Chapter



Cranfield UNIVERSITY

<http://www.cacsuk.org>

Call for Papers

Conference Theme: Future Automation, Computing & Manufacturing

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
- Communications and Networks
- Computer Architecture
- Computer Graphics & Visualization
- Control Methodologies and Applications
- Database and Knowledge Support
- Digital Manufacturing and Enterprise Technologies
- Flexible Manufacturing and CIM
- Human Computer Interaction
- Information Network Security
- Information Technology and Information Systems
- Interface Design & Human Factor
- 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, and Genetic Algorithms
- Nondestructive testing, evaluation and condition monitoring
- Optimisation and Decision Making Support
- 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 Applications
- 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'14 are available on the conference web site <http://www.icac14.co.uk>. 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, author's name(s), complete mailing addresses, and email address for correspondence. Electronic form of submission, in Word or PDF, is acceptable and preferred. The presenter of each paper needs to be clearly indicated in the first page.

With the technical co-sponsorship of IEEE CSS UKRI 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 a special issue of *International Journal of Automation and Computing* (<http://www.ijac.net>) and *Systems Science & Control Engineering* (Taylor & Francis)

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.

BEST CONFERENCE PAPERS: All accepted and presented papers are eligible for Best Conference Paper Awards. They will be assessed purely on their quality in terms of academic significance, research impact and novelty. The award certificates will be presented to the authors.

IMPORTANT DATES

Paper submission deadline-----30 April 2014
Notification of acceptance----- 31 May 2014
Camera-ready copy due----- 31 July 2014