

# The 29th International Conference on Automation and Computing (ICAC2024)



28 Aug – 30 Aug 2024, Sunderland, UK

## Call for Papers

Conference Theme:

*Smart Systems and Digital Healthcare*

### General Chair

Prof. Yongqiang Cheng  
University of Sunderland, UK

### General Co-chair

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Yanshan University, China

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Loughborough, UK

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Sheffield Hallam University, UK

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Dr Ibrahim Alqatawneh,  
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Dr Sam Danso,  
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Dr Basel Barakat  
University of Sunderland, UK  
Dr Qingde Li, Yingxiu Chang  
University of Hull, UK

### Organiser

The Chinese Automation and  
Computing Society in the UK

### Technical sponsor

IEEE Robotics and Automation  
Society

**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 participation and contributions from those involved in both theoretical and practical research on all aspects of automation, control, manufacturing and computer science.

**SCOPE:** The scope of the conference covers a broad spectrum of multidisciplinary areas in automation, smart manufacturing, robotics, control, computing and information systems, ranging from fundamental research to real-world practical applications. The conference welcomes the submission of papers in the nature of original research and technical reviews from but not limited to areas of:

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|---|--|--|
| Additive Manufacturing                            | Information and Network Security                     | Non-destructive Testing and Condition Monitoring |
| Artificial Intelligence                           | Information Technology and Systems                   | Optimisation and Decision Making                 |
| Autonomous Systems                                | Intelligent System and Automation                    | Production Planning and Scheduling               |
| Big Data and Data mining                          | Internet of Things                                   | Prognostics and Diagnostics                      |
| Cloud Computing                                   | Machine Learning                                     | Robotics   |
| Control Theory and Application                    | Machine Vision and Image Processing                  | Smart Sensing Technology                         |
| Cyber Physical Systems                            | Metrology and Inspection technology                  | System Diagnosis and Identification              |
| Digital Manufacturing and Enterprise Technologies | Neural Networks, Fuzzy Logic, and Genetic Algorithms | System Control, Modelling and Simulation         |
| Digital Twins                                     |  | Virtual and Augmented Reality                    |
| Flexible and Computer Integrated Manufacturing    |  | Wireless Sensor Networks                         |
| Human-Machine Collaborations                      |  |  |

### SUBMISSIONS:

The submitted papers should be no more than 6 pages (A4 paper) with IEEE conference paper format. The conference details and the paper template for ICAC2024 are available on the conference website. 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 postal addresses, and email address for correspondence. Electronic form of submission, in Word or PDF, is acceptable and preferred. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. The Proceedings of International Conference on Automation and Computing have been published on IEEE Xplore since 2011.

Authors of selected papers will be invited to submit extended article versions to a special issue of [Systems Science & Control Engineering](#) and a special issue of [Sensors](#).

The papers should be submitted online at <https://cmt3.research.microsoft.com/ICAC2024>.

For detailed up-to-date information, please visit the conference website <http://www.cacsuk.co.uk/icac>.

### SPECIAL SESSIONS:

The conference welcomes the proposals of special sessions. Please follow the link for details of [proposing special sessions](#).

### BEST STUDENT PAPERS:

Papers with the first author being a PhD student are eligible for the Best Student Paper Award. The authors shall clearly indicate whether their papers are qualified for this award during 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 conference

### IMPORTANT DATES:

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|----------------------------|--------------|
| Paper submission deadline  | 31 Mar 2024  |
| Notification of acceptance | 31 May 2024  |
| Camera-ready copy due      | 30 June 2024 |