The 30th International Conference on Automation and Computing (ICAC2025)

Loughborough University

IEEE Robotics & Automation Society

27 Aug – 29 Aug 2025, Loughborough, UK

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Call for Papers

Conference Theme: *Robotics and AI for a sustainable future*

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 benefits. 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:

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

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 ICAC2025 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 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 the special issues of Systems Science & Control Engineering and AIMS Electronics and Electrical Engineering.

The papers should be submitted online at https://cmt3.research.microsoft.com/ICACconf2025.

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. The current special sessions are available on the conference webpage.

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:

Paper submission deadline	~~31 Mar 2025~~ 30 April 2025
Notification of acceptance	31 May 2025
Camera-ready copy due	30 June 2025