

# 17th International Conference on Advanced Computational Intelligence

July 7 - 13, 2025

Bath, United Kingdom



## Call for Papers

<https://conference.cs.cityu.edu.hk/icaci/>

Sponsor and Organizer: University of Bath

Co-sponsors: Anglia Ruskin University, Brunel University London, City University of Hong Kong  
Technical Co-sponsor: IEEE Systems, Man and Cybernetics Society

The 17th International Conference on Advanced Computational Intelligence (ICACI2025) will be held in Bath, UK during July 7-13, 2025, following the successes of previous events. Situated in west England, Bath is a popular tourist city with many historic sites featured by UNESCO Cultural Heritages. ICACI2025 aims to provide a high-level international forum for scientists, engineers, and educators to present the state of the art of research and applications in related fields. The conference will feature plenary speeches given by world-renowned scholars, regular sessions with broad coverage, and special sessions focusing on popular topics.

### Call for Papers and Special Sessions

Prospective authors are invited to contribute high-quality papers to ICACI2025. In addition, proposals for special sessions within the technical scopes of the symposium are solicited. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers in special focused topics. Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing special sessions are invited to submit formal proposals to ICACI2025. A special session proposal should include the session title, a brief description of the scope and motivation, names, contact information and brief biographical information on the organizers.

**Topic Areas:** *Topics of contributing papers include, but are not limited to, the following areas:*

**Neural networks:** Computational neuroscience, connectionist theory, cognitive science, mathematical modeling of neural systems, neurodynamic analysis, neurodynamic optimization, adaptive dynamic programming, embedded neural systems, probabilistic and information-theoretic methods, principal and independent component analysis, hybrid intelligent systems, supervised learning, unsupervised learning, reinforcement learning, deep learning, brain imaging, neural information processing, neuroinformatics, bioinformatics, support vector machines and kernel methods, autonomous mental development, data mining, big data processing, pattern recognition, time series analysis, image and signal processing, robotic and control applications, telecommunications, transportation systems, intrusion detection and fault diagnosis, brain computer interface, neuro-engineering, neuromorphic hardware.

**Fuzzy systems:** Fuzzy mathematics, fuzzy measure and integral, fuzzy logic, possibility theory, fuzzy clustering, fuzzy classification, fuzzy data analysis, fuzzy decision-making, fuzzy modeling, fuzzy control, type-2 fuzzy systems, computing with words, rough sets, granular computing, fuzzy neural networks, neuro-fuzzy systems, fuzzy system architecture or hardware.

**Evolutionary computation:** Genetic algorithms, genetic programming, evolutionary strategy, swarm intelligence, particle swarm optimization, ant colony optimization, differential evolution, brain storm optimization, estimation of distribution algorithms, other meta-heuristics, evolutionary multi-objective optimization, evolutionary scheduling, data-driven evolutionary computation, large-scale optimization, parallel and distributed evolutionary computation, evolutionary computation for bi-level optimization, multi-tasking evolutionary computation, evolutionary computation under uncertainty, dynamic evolutionary algorithms, real world applications of evolutionary algorithms.

### Paper Submission

Authors are invited to submit full-length papers (8 pages maximum) by the submission deadline through the online submission system. Potential organizers are also invited to enlist five or more papers with cohesive topics to form special sessions. The submission of a paper implies that the paper is original and has not been submitted under review or is not copyright-protected elsewhere and will be presented by an author if accepted. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. The authors of accepted papers will have an opportunity to revise their papers and take consideration of the referees' comments and suggestions. All accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. Selected high-quality papers will be included in several journal special issues.

### Important Dates

Special session proposals deadline.....February 1, 2025  
Paper submission deadline.....March 1, 2025  
Notification of acceptance.....April 1, 2025  
Camera-ready copy and author registration.....May 1, 2025

#### General Chairs

Hanxiong Li, City University of Hong Kong, Hong Kong  
Honghai Liu, University of Portsmouth, Portsmouth, UK  
Qingfu Zhang, City University of Hong Kong, Hong Kong

#### Advisory Chairs

Qiang Shen, Aberystwyth University, Aberystwyth, Wales, UK  
Zidong Wang, Brunel University London, London, England, UK  
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#### Organizing Chairs

Jun Wang, City University of Hong Kong, Hong Kong  
Dingguo Zhang, University of Bath, Bath, UK

#### Program Chairs

Longzhi Yang, Northumbria University, UK  
Yingjie Yang, De Montfort University, Leicester, UK  
Zhigang Zeng, Huazhong University of Science and Technology, Wuhan, China  
Jinghui Zhong, South China University of Technology, Guangzhou, China

#### Special Sessions Chairs

Jianchao Fan, Dalian University of Technology, Dalian, China  
Xinyi Le, Shanghai Jiao Tong University, Shanghai, China  
Shuai Li, Oulu University, Oulu, Finland  
Jing Liang, Zhengzhou University, Zhengzhou, China

#### Tutorials/Workshop Chairs

Man-Fai Leung, Anglia Ruskin University, Cambridge, UK  
Weibo Liu, Brunel University, London, UK

#### Publications Chairs

Zhongying Chen, Southeast University, Nanjing, China  
Hongzong Li, University of Hong Kong, Hong Kong  
Mei Liu, The Chinese University of Hong Kong, Hong Kong  
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#### Publicity Chairs

Shihua Li, Southeast University, Nanjing, China  
Nian Zhang, University of the District of Columbia, Washington, DC, USA  
Zijun Zhang, City University of Hong Kong, Hong Kong  
Dongbin Zhao, Institute of Automation, Chinese Academy of Sciences, Beijing, China

#### Registration Chairs

Shenshen Gu, Shanghai University, Shanghai, China  
Xinqi Li, M&F Tech, Ltd., London, UK

#### Local Arrangements Chair

Gang Li, University of Bath, Bath, UK

#### Secretariat

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