



# 2024 International Conference on Advanced Robotics, Control and Artificial Intelligence (ARCAI 2024)

## CALL FOR PAPERS

December 9-12, 2024, Perth, Australia

The 2024 International Conference on Advanced Robotics, Control and Artificial Intelligence will be held in Perth, Australia, Dec. 9-12, 2024. This conference is organised by Murdoch University. It provides an international premier forum for leading academic scientists, researchers and engineers to exchange and present latest research developments and outcomes on all aspects of ARCAI. Particularly, it not only welcomes those emerging methodologies and techniques which bridge theoretical studies and applications in all ARCAI systems, but also includes the practical concerns and challenges encountered and potential solutions in the fields of ARCAI. High quality papers are solicited on all aspects of research and application, including but not limited to:

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| <ul style="list-style-type: none"> <li>• Robotics and Mechatronics</li> <li>• Advanced Modelling, Design, and System Identification</li> <li>• Control Theory and Applications</li> <li>• Fault Diagnosis and Reliable Control</li> <li>• Robot Vision, Navigation, Guidance &amp; Control</li> <li>• Multiple Robots and Networked Robots</li> <li>• Human-robot Interaction and Human Centered Systems</li> <li>• Artificial Intelligence &amp; Applications</li> <li>• Machine Learning &amp; Deep Learning</li> </ul> | <ul style="list-style-type: none"> <li>• Automation and Control Systems</li> <li>• Motion Control and Instrumentation</li> <li>• Sensors and Actuators</li> <li>• Autonomous Systems and Vehicles</li> <li>• Renewable Energy and Smart Grid</li> <li>• Power Systems &amp; Power Electronics</li> <li>• Production &amp; Manufacturing Systems &amp; Applications</li> <li>• Cyber-physical Systems &amp; Bioinformatics</li> <li>• Information and Networking Systems</li> <li>• Internet of Things &amp; Digital Twin</li> <li>• Computing Intelligence &amp; Big Data</li> </ul> |
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### Submissions & Publication

Papers should describe original and unpublished work about the above or related topics. Accepted and presented papers will be published in conference proceedings, as the **Springer Lecture Notes**, which are indexed by EI Compendex and Scopus. Instructions for preparation and electronic submission will be available on ARCAI2024 website. Please also note that abstract submission is also accepted.

Selected papers will be extended, peer-reviewed and potentially published in international journal special issues: **IEEE Transactions on Emerging Topics in Computing, Computers and Electrical Engineering, Robotica, IET Control Theory and Applications**, etc.

### Important Dates:

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| Special Session and Tutorial Proposal Submission | April 1, 2024  |
| Special Session and Tutorial Notification        | April 8, 2024  |
| Full Paper/Abstract Submission Due               | June 1, 2024   |
| Acceptance Notification                          | July 1, 2024   |
| Early-bird Registration Due                      | August 1, 2024 |
| Camera-ready Paper Submission                    | August 6, 2024 |

### Further Information

Website: [www.icarcai.org](http://www.icarcai.org)  
E-mail: [arcai2024@gmail.com](mailto:arcai2024@gmail.com)

#### Advisory Chairs

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#### Best Paper Award Chairs

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Chi-Tsun Cheng (Australia)  
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#### Industrial Liaison Chairs

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Moayed Moghbel (Australia)  
Jun Zhang (Australia)

#### Tutorial Chairs

Jian Wu (China)  
Yang Yang (China)  
Wenjia Ye (Australia)  
Dazhong Ma (China)  
Gaofeng Zhang (China)

#### Conference Secretaries

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