

AUSTRALASIAN CONFERENCE ON ARTIFICIAL LIFE AND COMPUTATIONAL INTELLIGENCE (ACALCI 2017)

31 Jan - 2 Feb 2017, Melbourne, Australia



CALL FOR PAPERS

While Artificial Life (AL) attempts to understand nature through modelling and simulation, Computational Intelligence (CI) attempts to translate this understanding into algorithms for learning and optimisation. The Australasian Conference on Artificial Life and Computational Intelligence features international research in AL and CI and provides a forum for innovative, interdisciplinary research associated with the computational concepts underlying living and intelligent systems.

ACALCI 2017 is organised in broad technical sessions that bring together experts from different fields in AL, CI and associated areas. The forum also hopes to encourage ALCI applied research in domains as diverse as health, the creative arts and finance. ACALCI encourages presentations, demonstrations, performances and discussions on topics including but not limited to:

Adaptive Ecologies	Cognitive Neuroscience	Ethics and Security in CI	Memetic Algorithms
Affective Computing	Complex Systems	Evolutionary Computation	Models of Emotions
ALCI in Design and Music	Computational Neuroscience	Evolutionary Design	Multi-Agent Systems
Ant Colony Optimization	Consciousness and Mind	Facial Expression Analysis	Non-player Game Characters
Applications of ALCI	Creative Arts and CI	Game Playing Agents	Pattern Recognition
Autonomous Agents	Data Mining	Human Machine Interaction	Philosophy of Artificial Life
Architecture and ALCI	Deep Learning	Humanities and ALCI	Reservoir Computing
Artificial Neural Networks	Developmental Learning	Humanoid Robots	Self-Organization
Artificial Societies and Markets	Digital Societies	Implementation Techniques	Simulation and Modelling
Augmented and Virtual Realities	Dimensionality Reduction	Information Theoretic Learning	Smart Grid Techniques
Big Data	Embodiment and Robotics	Intelligent Home Automation	Social Networks and ALCI
Bioinformatics	Emergence of Collaborative Behaviour	Language Processing	Statistical Learning Theory
Brain Computer Interfaces	Emotional AI	Machine Learning	Swarm Algorithms
Brain theory	Engineering of Consciousness and Mind	Mathematical Models	Synthetic Life Computations
Chatbots	Epidemiology Simulations	Medical Image Analysis	Visual Information Processing

SUBMISSION AND PRESENTATION

Authors are invited to submit papers based on recent research. All relevant papers will be fully peer reviewed by at least three reviewers from the ACALCI International Program Committee before acceptance for publication in the proceedings. It is expected that submitted manuscripts are original and have neither been published nor submitted for publication elsewhere.

All accepted papers for ACALCI 2017 will be published as LNAI volume by Springer-Verlag. The LNAI volumes are indexed by: Scopus, Zentralblatt MATH, IO-Port, MathSciNet, ACM Digital Library, dblp, EI Engineering Index (Compendex and Inspec databases), and the ISI Conference Proceedings Citation Index – Science (CPCI-S), included in ISI Web of Science.

IMPORTANT DATES

Extended paper submission deadline: August 31, 2016

Decision notification: September 25, 2016

Camera-ready submission: October 26, 2017

WORKSHOPS, TUTORIALS AND PERFORMANCES

If you would like to organise a workshop, tutorial or performance in connection with ACALCI2016 please contact the organisers as soon as possible.

CONTACT

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ACALCI 2017 will be co-located with the Australasian Computer Science Week (ACSW 2017): <http://acsw2017.deakin.edu.au/>

PLENARY SPEAKERS

Prof. Zbigniew Michalewicz, Complexica Ltd and University of Adelaide
 Prof. Hussein Abbass, University of New South Wales
 Prof. Pablo Moscato, University of Newcastle
 Prof. Kate Smith-Miles, Monash University
 Prof. Mengjie Zhang, Victoria University of Wellington

CONFERENCE ORGANISERS

General Chair: Xiaodong Li (RMIT University)

Program Co-Chairs: Markus Wagner (University of Adelaide), Tim Hendtlass (Swinburne University)

Paper & Poster Award Committee Chair: Vic Ciesielski (RMIT University)

Special Session Chair: Aldeida Aleti (Monash University)

Treasurer & Registration Chair: Andy Song (RMIT University)

Publicity Chairs: Kai Qin (RMIT University), Bing Xue (Victoria University of Wellington), Fabio Zambetta (RMIT University)

Local Organising Committee: Jeffrey Chan (RMIT University), Kelly Gao (University of Adelaide), William Raffe (RMIT University), Marco Tamassia (RMIT University)

LOCATION AND VENUE

ACALCI 2017 will be held at Deakin University's Waterfront Campus, Geelong, which is about 70 kilometers west of Melbourne, Australia.

The Geelong Waterfront Campus is located on Corio Bay, in the central business district of Geelong. Originally built as woolstores in 1893, the buildings have been extensively renovated to create a modern and impressive campus centre. The city of Geelong is a great place to visit during the summer with December being one of the hottest months of the year. The City is home to many local beaches and parks, such as the botanical gardens, so you can enjoy every minute of the sunshine. Central Geelong offers a diverse range of cuisine, wine and activities ranging from cultural, recreational and family friendly. Greater Geelong is also famous for excellent surf beaches and an amazing wine region with plenty of opportunities to visit local cellar doors and taste some great Australian wines on offer.