

The Third International Conference on Bio-Inspired Computing: Theories and Applications

BIC-TA 2008

Adelaide, Australia 28 September - 1 October, 2008

<http://www.bic-ta.org>



Call for Papers

The Third International Conference on Bio-Inspired Computing: Theory and Applications (BIC-TA 2008) aims to provide a high-level international forum for researchers working in the main areas of natural computing inspired by biology to present their recent results and to exchange ideas.

The conference invites researchers to contribute high-quality original research papers in any aspect of bio-inspired computing. The topics for the conference include, but are not limited to, the following:

Theories, methodologies and experimental results

- Neural networks
- Evolutionary computing and genetic algorithms
- DNA and molecular computing (including wet-lab results)
- Membrane computing
- Biological computing
- Swarm intelligence
- Autonomy-oriented computing
- Cellular and molecular automata

Applications

- Bioinformatics and cheminformatics
- Computational biology and drug design
- Systems biology and synthetic biology
- Computational genomics and proteomics
- Computational neuroscience
- Artificial life and artificial immune systems
- Signal processing and pattern recognition
- Financial engineering and electronic commerce
- Data fusion, knowledge discovery and data mining
- Natural language processing and expert systems
- Computer security and computer vision
- Circuit design and signal processing
- Biological implementation and molecular implementation
- DNA nanotechnology
- Web and networks

Multi-objective optimisation

Papers submitted for review should represent original, previously unpublished work. At the time the paper is submitted to BIC-TA 2008, and for the entire review period, the paper should not be under review by any other conference or scientific journal.

All submissions will be blind-reviewed by at least three experts in the field based on originality, significance and clarity.

All accepted papers will be published in IEEE Xplore. Revised and additionally refereed versions of selected papers presented at BIC-TA 2008 will be published after the conference in the *Journal of Computational and Theoretical Nanoscience*.

The authors of accepted papers will be given a 20-minute slot (plus 5 minutes for questions) in the conference schedule to present their work.

Key dates

The deadline for BIC-TA 2008 paper submissions is **Friday 16 May 2008**. (You have until 11:59 PM in the time zone of your choice. This means submissions will not be received after 11:59 AM on 17 May 2008 GMT (UTC+0)).

Notification of acceptance will be provided by e-mail no later than **Monday 14 July 2008**. Final, corrected versions of accepted papers, which must conform to the formatting guidelines that will be made available when the paper is accepted, are due no later than **Friday 1 August 2008**.

Submission details

Papers are to be submitted in a template-free format. The length of the paper must not exceed 12 pages (single space, 12-point font), including abstract, figures, tables and bibliography. The paper must contain an abstract with a length not exceeding 250 words. Papers are to be submitted electronically at <http://www.bic-ta.org> in PDF format only.

Conference web site

For more information about BIC-TA 2008, including details about registration, the conference location and invited speakers, please go to <http://www.bic-ta.org>.