

**Workshop on Intelligent Systems for Bioinformatics (WISB-2006)**  
**4 December 2006, Hobart, Tasmania, Australia**

**Call for papers**

Accurate and efficient computational tools are essential in order for biologists to make sense of the vast amounts of data being generated by high-throughput technologies such as genome sequencing and nucleotide micro-arrays. Existing intelligent systems offer powerful methods by which many biological questions can be addressed ranging from the analysis of genomic and proteomic data, to the extraction of knowledge from biomedical text and imaging, and the modelling of biological processes and molecules. The field of intelligent systems in bioinformatics is still in its infancy, however, with large amounts of knowledge still waiting to be extracted from, for example, genomic data and biomedical text, and with new technologies continually creating novel data types.

By bringing together researchers with an interest in applying intelligent systems technologies to bioinformatics problems, the Workshop on Intelligent Systems for Bioinformatics aims to bridge the gap between intelligent systems and bioinformatics.

We invite papers on mathematical, probabilistic and computational methods (in the broad realm of intelligent systems) applied in bioinformatics and computational biology, and on important biological results that are obtained from the use of these methods. Contributions can thus report on fundamental methodological research, on experimental and implementation issues involved in complex computations, and/or on the application of methods and programs that lead to discoveries of biological significance.

Acceptance of papers is subject to the significance of research and results, clarity of written presentation, and the suitability of topic for presentation at the workshop. Decisions are based on the review comments of at least two members of the program committee.

Each paper is limited to 8 pages and should follow the format of Springer's LNAI series <http://www.springer.de/comp/lncs/authors.html>. Papers should be submitted by email to [mikael@itee.uq.edu.au](mailto:mikael@itee.uq.edu.au) (in Word, PDF or Postscript format).

**Schedule**

Deadline for submitting papers	24 September 2006
Notification of acceptances	10 October 2006
Deadline for submitting revised papers	22 October 2006

**Publication**

The workshop proceedings will be published by the CRPIT series of the Australian Computer Society. Accepted contributors will be invited to revise their papers for a special issue of the Journal of Bioinformatics and Computational Biology. Final inclusion is subject to a re-review.

**Format and participation**

We envisage that researchers in artificial intelligence with an interest in scientific discovery and bioinformatics researchers looking for the right tools will gain from participating in this workshop. The one-day workshop will have a program of submitted contributions seen to fulfil the purpose of the workshop: to nurture collaboration between active researchers and to showcase significant and representative efforts, advancing bioinformatics and computational biology.

The workshop is held 4 December 2006, in Hobart, Australia, as a satellite to the 19<sup>th</sup> Australian Joint Conference on Artificial Intelligence (4-8 December, 2006). Workshop registration fees are set by the main conference organisers.

**Workshop organisers**

Dr. Mikael Bodén, School of Information Technology and Electrical Engineering, The University of Queensland, Australia ([mikael@itee.uq.edu.au](mailto:mikael@itee.uq.edu.au), <http://www.itee.uq.edu.au/~mikael>)

Dr. Timothy L. Bailey, Institute for Molecular Bioscience, The University of Queensland, Australia ([t.bailey@imb.uq.edu.au](mailto:t.bailey@imb.uq.edu.au), <http://research.imb.uq.edu.au/~tbailey>)

**Program committee chair**

Prof. Mark A. Ragan, Institute for Molecular Bioscience, The University of Queensland, Australia ([m.ragan@imb.uq.edu.au](mailto:m.ragan@imb.uq.edu.au)).

**Program committee**

Adil Bagirov	The University of Ballarat
Regina Berretta	The University of Newcastle
Sarah Boyd	Monash University
Vladimir Brusic	Harvard University
Phoebe Chen	Deakin University
Martin Frith	The University of Queensland/RIKEN
Nicholas Hamilton	The University of Queensland
Jim Hogan	Queensland University of Technology
Lars Jermiin	The University of Sydney
Geoff McLachlan	The University of Queensland
Tuan Pham	James Cook University
Alex Smola	National ICT Australia/The Australian National University
Terry Speed	The Walter & Eliza Hall Institute
Michael Towsey	Queensland University of Technology