

The Leading Professional Society for the New Era of Computational Biology

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CIBCB 2010 - Computational Intelligence in Bioinformatics and Computational Biology Canada - Montreal

Hosted by:	IEEE
Venue:	http://www.omnihotels.com/FindAHotel/MontRoyal.aspx
Dates:	May 02, 2010 through May 05, 2010
Call for Papers or Oral Presentations:	2009-01-01 through 2009-12-15
Call for Tutorials:	2009-01-01 through 2009-11-15
Early Registration Deadline:	2009-03-31

Description

This symposium will bring together top researchers, practitioners, and students from around the world to discuss the latest advances in the field of Computational Intelligence and its application to real world problems in biology, bioinformatics, computational biology, chemical informatics, bioengineering and related fields.

Computational Intelligence (CI) approaches includes artificial neural networks, fuzzy logic, evolutionary algorithms, hybrid approaches and other emerging techniques.

Topics of interest include, but are not limited to:

- high-throughput data analysis (microarrays, mass spectrometry, EST, etc.)
- molecular docking and drug design
- RNA and protein folding and structure prediction
- metabolic pathway analysis
- analysis of large biological data sets
- single nucleotide polymorphism (SNP) analysis
- immuno- and chemo-informatics
- molecular evolution and phylogenetics
- bio and medical ontologies
- microRNA gene expression analysis
- molecular sequence alignment and analysis
- systems and synthetic biology
- emergent properties in complex biological system
- computational proteomics
- motif and signal detection
- medical image analysis and pattern recognition
- in-silico optimization of biological systems

The use of computational intelligence must play a substantial role in submitted papers. Submissions will be peer reviewed and accepted papers will be published in the conference proceedings and will be indexed in IEEE eXplore.

SUBMISSION PROCEDURE:

Prospective authors are invited to submit papers of no more than eight (8) pages in IEEE conference format, including results, figures and references. Submission details can be found on the symposium web site at: www.cibcb.org/CIBCB10/submission10 . Authors are expected to present their paper at the symposium.

CALL FOR SPECIAL SESSIONS and TUTORIALS:

Contact the CIBCB 2010 Program Chair - Daniel Ashlock for instructions on proposing a special session or tutorial. Papers for special sessions must have significant computational intelligence content.

LOCATION:

The symposium will take place at the Hôtel Omni Mont-Royal located in beautiful downtown Montreal close to the University of Montreal and MacGill University

ORGANIZING COMMITTEE:

General Chair L. Gwenn Volkert

Program Chair: Dan Ashlock

Technical Co-Chairs:

- Francesco Masulli (Neural Networks)

- Mihail Popescu (Fuzzy Systems)

- Clare Bates Congdon (Evolutionary Algorithms)

Publicity Chair: Sorin Draghici

Proceedings Chair: Chengpeng (Charlie) Bi

Finance Chair: Gary Fogel

Direct your questions or requests for additional information to:

L. Gwenn Volkert - volkert@cs.kent.edu - CIBCB 2010 General Chair
or

Daniel Ashlock - dashlock@uoguelph.ca - CIBCB 2010 Program Chair

or visit:

<http://www.cibcb.org/CIBCB10>

CIBCB'2010 Flyer - Call For Papers

Additional Information

Event URL:

<http://www.cibcb.org/CIBCB10>

ISCB Member Discount:

None

Contact Person:

Daniel Ashlock - (dashlock@uoguelph.ca)

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