



IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology

May 21-24, 2014, Hilton Hawaiian Village, Honolulu, HI



Call for Papers



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Steven Corns (USA)

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De-Shuang Huang (China)

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Fuzzy Systems (Thailand)
Madhu Chetty – Evolutionary
Computation (Australia)
Francesco Masulli –Special
Approaches (Italy)
Roberto Tagliaferri – Neural
Networks (Italy)

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Sheridan Houghten (Canada)

The 11th annual IEEE Computational Intelligence in Bioinformatics and Computational Biology Conference 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 approaches include artificial neural networks and learning systems, fuzzy logic, evolutionary algorithms, hybrid algorithms, and other emerging techniques. Topics of interest include but are not limited to:

- Gene expression array analysis
- Structure prediction and folding
- Molecular sequence alignment and analysis
- Metabolic pathway analysis
- RNA and protein folding and structure prediction
- Analysis and visualization of large biological data sets
- Motif detection
- Molecular evolution and phylogenetics
- Systems and synthetic biology
- Modeling, simulation, and optimization of biological systems
- Robustness and evolvability of biological networks
- Emergent properties in complex biological systems
- Ecoinformatics and applications to ecological data analysis
- Medical imaging and pattern recognition
- Medical image analysis
- Biomedical data modeling and mining
- Treatment optimization
- Biomedical model parameterization

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 Xplore. Selected papers after a substantial extension will be considered for publication in journal special issues.

Submission Procedure

Prospective authors are invited to submit papers in IEEE format, including results, figures, and references. Accepted papers longer than eight pages will have an additional per page charge. Submission details can be found at: <http://www.cibcb.org>.

For additional information, contact the General Chair, Steven Corns, Engineering Management and Systems Engineering Department, Missouri University of Science and Technology, Rolla, MO. Email: cornss@mst.edu.

Important Dates

Special session proposals:
October 11, 2013

Paper Submission Deadline:
November 15, 2013

Paper acceptance:
February 14, 2014



More information at: <http://www.cibcb.org>