



IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology

May 30-June 2, 2018, Renaissance Hotel, Saint Louis, MO

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This 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, 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
- Brain computer interface

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.

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: www.cibcb.org/CIBCB2018.

Important Dates

Special session proposals:
November 10, 2017

Paper Submission Deadline:
November 24, 2017

Paper acceptance:
February 9, 2018

Final paper submission:
March 16, 2018

Hotel rates start at \$107 per night at the conference hotel. For additional information, contact the Finance Chair, Steven Corns, Engineering Management and Systems Engineering Department, Missouri University of Science and Technology, Rolla, MO. Email: cornss@mst.edu.

