GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

Bioinformatics and Systems Biology

www.ieeeglobalsip.org/sym/13/BSB   December 3-5, 2013 • Austin, Texas, U.S.A.

Organizing Committee

General Chair

Haris Vikalo
*The University of Texas at
    Austin*

Technical Program Chairs

Byung-Jun Yoon
Texas A&M University

Fuli Yu
Baylor College of Medicine

Call for Papers

Recent advances in cellular, molecular and systems biology, fueled by the development and proliferation of high-throughput screening technologies, have stimulated synergetic activities between a wide range of scientific disciplines. Processing and analyzing massive genomic data sets, along with the generally high complexity of genomic and proteomic structures and mechanisms, present challenges and opportunities for signal processing and high-dimensional statistics. The symposium on Bioinformatics and Systems Biology will provide a forum for presenting new results and identifying potential areas of collaboration across different scientific and engineering communities. The focus of the symposium will be on computational methods and engineering approaches to address problems in cellular, molecular and systems biology.

Topics of interest include:

- High throughput sequencing data analysis
- Big data analytics in genomics and proteomics
- SNP/genotype/haplotype calling
- Biomarker discovery
- Modeling of disease dynamics
- Drug screening and effectiveness prediction
- Genetic network and pathway modeling and simulation
- Dynamics and control of genetic regulatory networks
- Functions of miRNA and non-coding RNAs

Paper Submission

Paper submission will be online only through the GlobalSIP 2013 website. Papers should be in IEEE two-column format and no longer than 4 pages.

Symposia Website

Full details, new updates, and submission instructions can be found on the symposia website, http://www.ieeeglobalsip.org/sym/13/BSB

Important Dates	
Paper Submission Deadline	June 15, 2013
Review Results Announce	July 30, 2013
Camera-Ready Papers Due	September 7, 2013

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