

BIBM2009

Washington DC, USA
Nov. 1~4, 2009

IEEE International Conference on Bioinformatics and Biomedicine (BIBM09)

<http://www.ittc.ku.edu/bioinformatics/BIBM09>

We are soliciting high quality original research papers (including significant work-in-progress) in any aspect of bioinformatics and biomedicine. New computational techniques and methods in machine learning; data mining; text analysis; pattern recognition; knowledge representation; databases; data modeling; combinatorics; stochastic modeling; string and graph algorithms; linguistic methods; robotics; constraint satisfaction; data visualization; parallel computation; data integration; modeling and simulation and their application in life science domain are especially encouraged. Relevant topics included but not limited to:

1. Genomics and Molecular Structure, Function and Evolution

- Next-Gen Sequencing and Metagenomics
- Evolution, Phylogeny, Comparative Genomics
- SNPs and haplotype analysis, GWAS
- Protein/RNA Structure, Function and Interactions

2. Computational Systems Biology

- Transcriptomics - Microarray Data Analysis
- Gene Regulation, Alternative Splicing, Network/Pathway Analysis
- Proteomics, PTMs, Metabolomics
- Epigenomics, non-coding RNA analysis, DNA methylation analysis

3. Medical Informatics and Translational Bioinformatics

- Biomedical Intelligence, Clinical Data Analysis, and Electronic Health Record
- Biomedical Signal/Image Analysis
- Genome-Phenome Analysis
- Biomarker Discovery

4. Cross-Cutting Computational Methods and Bioinformatics Infrastructure

- Biomedical Text Mining and Ontologies
- Biological Data Mining and Visualization
- Computational Modeling and Data Integration
- High Performance Computing

Page limit: 6 page (IEEE 2-column format)

Selected papers will be invited to be published in the journals of

IEEE/ACM TCBB

BMC
Bioinformatics
ARTIFICIAL INTELLIGENCE IN
MEDICINE

International Journal of
Data Mining
and Bioinformatics

Conference Co-Chairs:

Prof. Xue-wen Chen
The University of Kansas, USA
Prof. Sun Kim
Indiana University, USA

Program Co-Chairs:

Prof. Cathy Wu
University of Delaware, USA
Prof. Dong Xu
University of Missouri-Columbia, USA

Important Dates:

- Workshop proposal submission: June 5, 2009
- Tutorial proposal submission: June 26, 2009
- Electronic submission of full papers: July 10, 2009
- Poster submission: August 20, 2009
- Notification of paper acceptance: August 14, 2009
- Camera-ready of accepted papers: September 4, 2009

Keynote Speakers:

- Trey Ideker
University of California, San Diego, USA
- Chris Sander
Memorial Sloan Kettering Cancer Center, USA
- David States
University of Texas Health Science Center, USA
- Stephen Wong
The Methodist Hospital Research Institute, USA

- Panel Discussions with Program Directors/Managers
- Bioinformatics Education Panel