Call for Papers for a Special Session on

Bioinformatics

Biology and Biomedicine have become increasingly data-driven sciences. The emerging research in this area is producing vast quantities of data daily from clinical trials, as well as statistics population genetics, imaging, gene sequencing, gene expression analysis, and protein identification projects. This data is inherently high dimensional and uniquely combines enormity with fine granularity, and the rate of accumulation of this data far exceeds our capacity to analyze it and to discover novel and significant knowledge embedded in it. Bioinformatics is a relatively new science of storing, extracting, organizing, analyzing, interpreting, and utilizing information from biological sequences and molecules. The goal of this conference special track is to explore, report, and share novel and significant research solutions using advanced algorithmic approaches of contemporary areas of computing to various bioinformatics challenges. Authors are invited to submit original papers to the special track exploring algorithmic theories, techniques, and applications for bioinformatics. Papers are invited (but not limited) to the following topics:

Phylogenetics and Comparative Genomics
Computational Proteomics
Modeling of Biochemical Pathways
Computational Biomarker Discoveries
Microarray Data Analysis
System Biology and Pathways
Phylogenetics
Computational Drug Discoveries
RNAi and microRNA Analysis
Biomedical Text Mining
Protein/RNA Structure Prediction
Biological Data Visualization
Gene Ontologies
Biological Data Management Techniques
Sequence and Structural Motif Finding
Biomedical and Clinical Image Analysis
Modeling of Biological Networks and Pathways
Feature Selection and Pattern Discovery in Biological Data
Statistical Learning Methods in Bioinformatics
Semantic Webs and Ontology-Driven Biological Data Integration Methods

Paper Submission: Prospective authors are invited to submit papers of no more than **twelve pages** including results, figures, and references; submission details can be found on the symposium web site: http://www.jiit.ac.in/jiit/ic3/IC3-2009/IC32009.html. Authors of accepted papers are expected to present at the conference.

Location: Jaypee Institute of Information Technology University, A-10, Sector 62, Noida-201307, U.P., India.

For further information regarding the session please contact:
Session Chair: Dr. Sumeet Dua, Department of Computer Science, Louisiana Tech University, LA, USA. sdua@coes.latech.edu
Conference General Co-Chairs: Dr. Sartaj Sahni , University of Florida, FL, USA and Sanjay Goel, Jaypee Institute of Information Technology University,
India.