

Call For Papers

ACM Second International Workshop of Data and Text Mining Methods in Bioinformatics (DTMBIO)

October 30, 2008

In conjunction with ACM 17th Conference on Information and Knowledge Management (CIKM)

Napa Valley Marriott Hotel & Spa: Napa Valley, California, USA
October 26-30, 2008

The rapid development of bioinformatics techniques is leading to innovations in various fields in computer science including data mining, text mining, information retrieval, and database management, among others. A fundamental issue presented in bioinformatics research is how to make effective use of the enormous amount of biological and biomedical data to improve the understanding of biological systems. Such data include but not limited to the gene expression profiles from Microarray experiments, protein sequences and structures from high-throughput sequence and structure determination methods, protein-protein interactions from proteomic study, Single Nucleotide Polymorphisms from SNP arrays, and bibliographic information from electronic medical journals. The ability to automatically and effectively extract, understand, integrate, and make use of information embedded in such heterogeneous semi-structured or unstructured data characterizes the state of the bioinformatics field.

The 2nd CIKM workshop of Data and Text Mining Methods in Bioinformatics (DTMbio) will provide a forum for investigators to present the latest data mining research in bioinformatics research. We encourage papers that propose novel data mining techniques for tasks such as:

Topic of Interests:

The relevant topics include the following (but not limited to):

- Proposal and assessment of novel Data and Text Mining solutions
- Information extraction from scientific papers
- Information retrieval for large data collections
- Gene sequence annotation

- Protein/RNA structure prediction
- Gene expression analysis
- Sequence and structural motifs
- Modeling of biochemical pathways and biological networks
- TM dealing with large and distributed data sets
- Image Mining in Bioinformatics
- Full-text Mining in Bioinformatics
- Data and Text Mining solutions for drug development, system biology, biomedical working processes
- Information integration for Data and Text Mining
- Mining multi-relational data

Important Dates:

- * Full paper due: July 20, 2008
- * Notification of Acceptance: August 3, 2008
- * Camera ready: August 13, 2008

Paper Submissions:

Authors are invited to submit original, unpublished research papers that are not being considered for publication in any other forum. Manuscripts should be submitted electronically, in PDF format and formatted using the [ACM camera-ready templates](#).

Papers cannot exceed 8 pages in length. See the workshop website <http://web.njit.edu/~song/dtmbio2008/home.html> for information about web submission and workshop program.

Selected papers will be invited for a special issue of BMC Bioinformatics.

Workshop Chairs:

Min Song, New Jersey Institute of Technology, USA

Luke Huan, University of Kansas, USA

Doheon Lee, KAIST, Korea

Program Committee:

Tatsuya Akutsu, Kyoto University, Japan

Sourav S Bhowmick, Nanyang Technological University, Singapore

Christian Blaschke,	Bioalma, Spain
Lynette Hirschman,	MITRE, USA
Hui-Huang Hsu,	Tamkang University, Taiwan
Xiaohua Hu,	Drexel University, USA
Sungwon Jung,	TGen, USA
Jeongja Kim,	Chonbuk National University, Korea
Sun Kim,	Indiana University, USA
Young Joo Kim,	KRIBB, Korea
KiYoung Lee,	UCSD, USA
Tao Li,	Florida International University, USA
Li Liao,	University of Delaware, USA
Hongfang Liu,	Georgetown University, USA
Martin Middendorf,	University of Leipzig, Germany
Zoran Obradovic,	Temple University
Burr Settles,	University of Wisconsin, USA
Mona Singh,	Princeton University, USA
Manabu Torii,	Georgetown University, USA
Alfonso Valencia,	Spanish National Cancer Research Centre, Spain
Jason Wang,	New Jersey Institute of Technology, USA
Brook Wu,	New Jersey Institute of Technology, USA
Alexander Yates,	Temple University, USA
Jieping Ye,	Arizona State University, USA
Illhoi Yoo,	University of Missouri-Columbia, USA