

Call for Papers



ACM Fourth International Workshop on Data and Text Mining in Biomedical Informatics (DTMBIO)

October 26, 2010

In conjunction with ACM 19th Conference on Information and Knowledge
Management (CIKM) Toronto, Canada

October 26-30, 2010

<http://www.dtm.bio.org/dtm.bio2010/>

DTMBIO 10 organizers are pleased to announce that the fourth DTMBIO will be held in conjunction with CIKM, one of the largest data and text mining conferences. While CIKM presents the state-of-the-art research in informatics with the primary focus on data and text mining, the main focus of DTMBIO is on biomedical informatics. DTMBIO delegates will bring forth interesting applications of up-to-date informatics in the context of biomedical research.

Biological researchers face the current challenge of making effective use of the enormous amount of electronic biomedical data in order to better understand and explain complex biological systems. The biomedical data repositories include data in a wide variety of forms, including bibliographic information from electronic medical journals, gene expression data from Microarray experiments, protein identification and quantification data from proteomics experiments, genomic sequences gathered by the Human Genome Project, and patient healthcare records. The ability to automatically and effectively extract, integrate, understand and make use of information embedded in such heterogeneous – structured and unstructured – data remains a challenging task.

We invite the submission of papers that propose ways to address the variety of aspects involved in meeting this challenge.

Topic of Interest

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

- Proposal and assessment of novel text mining solutions
- Information integration for data and text mining
- Information extraction from biomedical literature
- Information retrieval for large distributed data collections

- Gene sequence annotation
- Protein/RNA structure prediction
- Gene expression analysis
- Algorithms for sequence and structural motif detection
- Modeling of biochemical pathways and biological networks
- Image mining in biomedical informatics
- Mining multiple information sources in biomedical informatics
- Workflow modeling and analysis for drug development, system biology, and biomedical working processes
- Knowledge discovery in electronic medical records
- Translational medicine approaches for combining bioinformatics data with clinical information

Submission Guidelines

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.

Full papers:

Submissions must describe substantial, original, completed and unpublished work. Full papers may consist of up to eight pages. Full papers will be presented at the workshop.

Short papers:

DTMBIO 10 solicits short papers as well. Short paper submissions must describe original and unpublished work. Short papers will be presented at the workshop, and will be given four pages in the proceedings.

All papers (in PDF format) should be submitted to:

<http://www.easychair.org/conferences/?conf=dtmbio10>

Selected full papers will be invited for a special issue of BMC Bioinformatics and International Journal of Data Mining and Bioinformatics.

Important Dates (tentative)

07/10/10	Deadline for submission of papers
08/02/10	Notification of Acceptance
08/15/10	Camera Ready Papers
10/26/10	Workshop

Workshop Chairs

General Co-Chairs:

Doheon Lee, KAIST, Korea

Hagit Shatkay, Queen's University, Canada

Program Co-Chairs:

Min Song, NJIT, USA

Shamkant Navathe, Georgia Tech, USA

Publicity Chair :

Manabu Torii, Georgetown University

Program Committee

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Zoran	Obradovic	Temple University, USA

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Alfonso	Valencia	Nacional de Biotechnologia, Spain
Alexander	Yates	Temple University, USA
Gwansu	Yi	KAIST, Korea
Sungro	Yoon	Korea University, Korea
HwanJo	Yu	POSTECH, Korea