

First International Workshop on Geographic and Biological Data Management (GBDM'04)

in conjunction with

COMPSAC 2004

September 28-30, 2004, Hong Kong

<http://rachel.utdallas.edu/compsac>

1. Motivation

Over the past few years, new improved technologies have made explosive availability of large quantities of geo-spatial and biological data. There is a critical demand for innovative techniques to model and analyze these vast volumes of heterogeneous data. This workshop is intended to provide a forum for researchers who carry out research and development in Geographic Information System and Bioinformatics.

2. Scope of the Workshop

Papers presenting original research on the following topics, but not exclusive, are sought:

- Knowledge representation
- Knowledge discovery and data mining
- Database design, modeling and management
- Warehousing spatial/biological/temporal data
- Spatial and Spatial-temporal data mining
- Geo-spatial query processing and optimization
- Biological query processing and optimization
- Geo-spatial and biological data cleaning
- Geo-spatial algebra and query language
- Genomic algebra and query languages
- Ontology design
- Biological Workflows
- Algorithms for large scale and distributed geospatial / biological databases
- Protein structure prediction
- Management of proteomic experimental data
- Management of Bio images
- XML and biological data management
- Biologist-friendly user interface design
- Algorithms for computation biomedicine
- XML and GIS
- Integrity, security, and tolerance.

In keeping with our mission, GBDM 2004 is intended to bring together researchers in geographic/biological data management, algorithms and tools development and provides a common forum for exchange of ideas and discussion. Participants will gain important new insights and experiences on managing geographic/biological data, and integrating analysis tools and algorithms with database query processing techniques.

3. Important Dates

- Paper submissions due: **March 22, 2004 (extended)**
- Notification of acceptance: **May 20, 2004**
- Camera-ready Due: **June 30, 2004**

4. Submission

The GBDM workshop is planned to last one day. The program consists of contributed papers, invited papers, and panel discussions. All submitted papers will be refereed for quality, originality and relevance by the Program Committee listed below. The important dates and evaluation criteria for paper submission is same as the COMPSAC 2004. Participation in the workshop will be open to all COMPSAC attendees with interests in the topics.

Papers must be submitted electronically at <http://rachel.utdallas.edu/compsac/submit.html>. Please read and follow the instructions listed on that page. The format of submitted papers must follow the IEEE conference proceedings guidelines which are available at <http://computer.org/author/psguide.htm>. Accepted papers will be included in a separate proceedings. Each paper is expected to be no more than four pages. Extended versions of selected accepted papers will be considered for publication in a special issue of an international journal. One of the authors of each accepted paper must present the paper at the workshop and have regular registration uniquely identified with the paper, which will cover the following: the admission to all the technical sessions and a copy of the proceedings of COMPSAC 2004 and its workshops, the welcome reception and conference banquet.

5. Workshop Organizers

Program Chair

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Program Committee

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6. General Inquiries

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