



Call For Papers
20th International Conference on
Scientific and Statistical Database Management
July 9-11, 2008, Hong Kong, China
<http://www.cs.hku.hk/~ssdbm/>

The SSDBM conference series focuses on concepts, tools, and techniques for scientific and statistical database applications. The 2008 meeting marks the 20th time that scientific domain experts, databases researchers, practitioners and developers will come together to share their new insights and to discuss in a stimulating environment future research directions. The conference will consist of a single track of presentations, including invited talks and peer-reviewed papers selected from among the submissions to this call for papers, and panel discussions. The conference proceedings will be published as a volume in Springer's Lecture Notes in Computer Science (LNCS) series.

SSDBM will address all areas of scientific and statistical database management. We solicit research papers (up to 18 pages LNCS style) describing original work not published or under review elsewhere. Papers selected after peer review will be included in the conference proceedings and presented orally at the conference.

Topics of particular interest include (but are not limited to):

- * Scientific data management in all domains, e.g. environmental health, biology, genomics, Earth science, physics, and astronomy
- * Spatial, temporal, spatio-temporal, semantic models for scientific domains
- * Ontologies for space and time
- * Scientific computing with domain ontologies
- * Conceptual models, data models, knowledge representation of scientific data
- * Statistical data analysis of scientific and large-scale data sets
- * Similarity comparisons of datasets
- * Summarization of large-scale datasets
- * Mining of large-scale scientific and statistical datasets
- * Exploratory analysis and modeling of scientific and statistical datasets
- * Experiment data and process management
- * Scientific data integration
- * Cyberinfrastructure for scientific computing and eScience
- * Scientific workflow models, design, management, and optimization
- * Provenance in scientific databases and workflows
- * Visualization of complex scientific data
- * Metadata management for scientific data
- * Storage, querying, and analysis of sensor streams
- * Privacy protection in scientific and statistical datasets
- * System architectures in support of scientific applications

We also invite short papers (up to 6 pages LNCS style) describing systems and software demonstrations or discussing new ideas or work in an early stage. Accepted short papers will be featured in a poster-and-demonstration session. See the conference web site for submission details.

Important Dates:

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- * January 11, 2008: Abstracts due
 - * January 23, 2008: Full and short papers due
 - * March 10, 2008 : Notification of acceptance
 - * April 4, 2008 : Camera-ready papers due

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