Data Engineering deals with the use of engineering techniques and methodologies in the design, development and assessment of information systems for different computing platforms and application environments.

The 24th IEEE International Conference on Data Engineering will continue in its tradition of being a premier forum for presentation of research results and advanced data-intensive applications and discussion of issues on data and knowledge engineering. The mission of the conference is to share research solutions to problems of today’s information society and to identify new issues and directions for future research and development work. ICDE 2008 invites research submissions on all topics related to data engineering, including but not limited to those listed below:

- Data Integration, Interoperability and Metadata
- Ubiquitous Data Management and Mobile Databases
- Query Processing, Query Optimization
- Data Structures and Data Management Algorithms
- Data Privacy and Security
- Data Mining Algorithms
- Data Mining Systems, Data Warehousing, OLAP and Architectures
- Distributed, Parallel, Peer to Peer Databases
- XML Data Processing, Filtering, Routing and Algorithms
- XML and Relational Query Languages, Mappings and Engines
- Web Search and Deep Web
- Databases for Science
- Internet Grids, Web Services, Web 2.0 and Mashups
- Data Streams
- Sensor Networks
- Temporal and Multimedia DBs, Algorithms & Data Structures
- Spatial and High Dimensional DBs, Algorithms & Data Structures
- Systems, Platforms, Middleware, Applications & Experiences
- Database System Internals, Performance & Self-tuning

**IMPORTANT DATES**

- **Research and Industrial papers**
  - Abstract deadline: June 22, 2007
  - Submission deadline: June 27, 2007
- **Panel, Demo and Seminar proposals**
  - Submission deadline: June 27, 2007
  - Notification: October 12, 2007
- **Workshop proposals**
  - Submission deadline: June 27, 2007
  - Notification: August 1, 2007

**AWARDS**

An award will be given to the best paper. A separate award will be given to the best student paper. Papers eligible for this award must have a (graduate or undergraduate) student listed as the first and contact author, and the majority of the authors must be students. Such submissions must be marked as student papers at the time of submission.

**INDUSTRIAL PROGRAM**

The conference will include an industrial track covering innovative commercial implementations or applications of database or information management technology, and experience in applying recent research advances to practical situations. Papers should describe innovative implementations, new approaches to fundamental challenges (such as very large scale or semantic complexity), novel features in information management products, or major technical improvements to the state-of-the-practice.

**DEMONSTRATIONS**

Proposals for research prototype demonstration should focus on developments in the area of data and knowledge engineering, showing new technological advances in applying database systems or innovative data management-processing techniques. Papers should give a short description of the demonstrated system, explain what is going to be demonstrated, and state the significance of the contribution to database technology, applications or techniques.

**ADVANCED TECHNOLOGY SEMINARS**

Seminar proposals must include an abstract, an outline, a description of the target audience, duration (1.5 or 3 hours), and a short bio of the presenter(s).

**PANELS**

Panel proposals are expected to address new, exciting, and controversial issues. They should be provocative, informative, and entertaining. Panel proposals must include an abstract, an outline of the panel format, and relevant information about the proposed panelists.

**WORKSHOPS**

We solicit proposals for workshops related to the conference topics. Proposals for workshops should stress how they intend to provide more insight into the proposed topics with respect to the main conference. Workshop duration can be 1 day (April 7 or April 12) or 1.5 days (the afternoon of April 11 and all day April 12). All workshops will benefit from the registration process of ICDE 2008.

**SUBMISSION INFORMATION**

Papers must be prepared in the 8.5”x11” IEEE camera-ready format and, by specifying the right track, submitted electronically at https://msrcmt.research.microsoft.com/ICDE2008. All accepted papers will appear in the proceedings published by the IEEE Computer Society.

For more information, visit [www.icde2008.org](http://www.icde2008.org)