



1st call for papers

The Fourth Pacific-Asia Conference on

Knowledge Discovery and Data Mining

Kyoto, Japan

April 18-20, 2000

Papers Due: October 10, 1999

The Fourth Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-2000) will provide an international forum for the sharing of original research results and practical development experiences among researchers and application developers from different KDD related areas such as machine learning, databases, statistics, knowledge acquisition, data visualization, knowledge-based systems, soft computing, and high performance computing. It will follow the success of PAKDD-97 held in Singapore in 1997, PAKDD-98 held in Australia in 1998, and PAKDD99 held in China in 1999 by bringing together participants from universities, industry and government.

Sponsored by

Japanese Society of Artificial Intelligence
SIG-KBS (Knowledge Base Systems)
SIG-FAI (Fundamental AI)
The Institute of Electronics, Information and Communication Engineers
SIG-DE (Data Engineering), SIG-AI (Artificial Intelligence)
Japan Society for Software Science and Technology
SIG-DM (Data Mining)
Information Processing Society of Japan
SIG-DB (Data Base), SIG-ICS (Intelligent & Complex Systems)
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Both research and applications papers are solicited. All submitted papers will be reviewed on the basis of technical quality, relevance to KDD, originality, significance, and clarity. Accepted papers are expected to be published in the conference proceedings by Springer-Verlag in the Lecture Notes in Artificial Intelligence series. A selected number of PAKDD-2000 accepted papers will be expanded and revised for inclusion in major Japanese and/or international journals. Candidates include "Knowledge and Information Systems: An International Journal" by Springer-Verlag (<http://kais.mines.edu/~kais/>).

PAKDD Best Paper Award will be conferred on the authors of the best paper at the conference. The winner will be honored US\$500 and free registration.

Authors are invited to email postscript files of their papers to terano@gssm.otsuka.tsukuba.ac.jp or to send Four copies of them to

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Electronic submission is highly preferred. Papers must be received by October 10, 1999. Notification of acceptance will be emailed to the first (or designated) author by December 15, 1999. Camera-ready copy of accepted papers will be due January 15, 2000.

Format: The paper should consist of a cover page with title, authors' names, postal and e-mail addresses, an approximately 200 word summary, up to 5 keywords and a body not longer than ten pages with a single space. It is recommended that the authors use the style file of Springer-Verlag (<http://www.springer.de/comp/lncs/authors.html>) to minimize the possible conflict of paper length when preparing the camera ready.

Papers on all aspects of knowledge discovery and data mining are welcome. Areas of interest include, but are not limited to:

- Theory and Foundational Issues in KDD

- * Data and Knowledge Representation
- * Logic for/of Knowledge Discovery
- * Expanding the Autonomy of Machine Discoverers
- * Human Factors
- * Scientific Discovery
- * New Theory, Philosophy, and Methodology

- KDD Algorithms and Methods

- * Machine Learning Methods
- * Statistical Methods
- * Heuristic Search
- * Inductive Logic Programming
- * Deduction, Induction and Abduction
- * Discovery of Exceptions and Deviations
- * Multi-criteria Evaluation and Data Mining Metrics
- * Hybrid and Multi-agent Methods
- * Evaluation of Complexity, Efficiency, and Scalability of Algorithms

- Process-Centric KDD

- * Models and Framework of the Knowledge Discovery Process
- * Data and Dimensionality Reduction
- * Preprocessing and Postprocessing
- * Interestingness Checking of Data and Rules
- * Management and Refinement for the Discovered Knowledge
- * Decomposition of Large Data Sets
- * Discretisation of Continuous Data
- * Data and Knowledge Visualization
- * Role of Domain Knowledge and Reuse of Discovered Knowledge
- * KDD Process and Human Interaction

- Soft Computing for KDD

- * Information Granulation and Granular Computing
- * Rough Sets in Data Mining
- * Neural Networks, Probabilistic Reasoning
- * Noise Handling and Uncertainty Management
- * Hybrid Symbolic/Connectionist KDD Systems

- High Performance Data Mining and Applications

- * Multi-Database Mining
- * Data Mining in Advanced Databases (OODB, Spatial DB, Multimedia DB)
- * Database Reverse Engineering
- * Integration of Data Warehousing, OLAP and Data Mining
- * Combining Data Mining with Database Querying
- * Parallel and Distributed Data Mining
- * Data Mining on the Internet
- * Multi-agent, Multi-task KDD Systems
- * Data Mining from Unstructured and Multimedia Data
- * Unification of Data Mining with Intelligent Information Retrieval
- * Security and Privacy Issues
- * Successful/Innovative KDD Applications in Science, Engineering, Medicine, Business, Education, Government, and Industry

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Call for Tutorial Proposals

PAKDD-2000 will offer a tutorial program on KDD topics. We would be able to present only a limited number of tutorials, and the selection would be guided by the perceived quality and relevance to the conference. If you are interested in giving a tutorial, please send a proposal to tsumoto@computer.org by Oct. 10, 1999.

Call for Workshop Proposals

PAKDD-2000 will provide a venue for a few workshops to focus on advanced research areas of KDD. Please submit suggestions for workshop proposals to yamaguti@cs.inf.shizuoka.ac.jp by Oct. 10, 1999.

Call for Panel Proposals

Proposals are sought for panels that stimulate interaction between the communities contributing to KDD. Include title, the main goals, prospective participants and a summary of the topics to be discussed. Please email panel proposals to terano@gssm.otsuka.tsukuba.ac.jp by Oct. 10, 1998.

Call for Exhibits and Industry Sessions

PAKDD-2000 will organize a data mining, OLAP and data warehouse product exhibition. Please send proposals for exhibits to terano@gssm.otsuka.tsukuba.ac.jp by Oct. 10, 1998.

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Please Visit the web site.:

<http://www.keihanna-plaza.co.jp/PAKDD00/>