



# The Third International Conference on Knowledge Discovery and Data Mining—KDD-97

Sponsored by AAAI • Newport Beach, California • August 14–17, 1997

In cooperation with the American Statistical Association

(KDD-97 immediately follows the 1997 Joint Statistical Meeting held in Anaheim, California, August 10-14)

**T**he rapid growth of data and information has created a need and an opportunity for extracting knowledge from databases, and both researchers and application developers have been responding to that need. Knowledge discovery in databases (KDD), also referred to as *data mining*, is an area of common interest to researchers in machine discovery, statistics, databases, knowledge acquisition, machine learning, data visualization, high performance computing, and knowledge-based systems. KDD applications have been developed for astronomy, biology, finance, insurance, marketing, medicine, and many other fields.

The Third International Conference on Knowledge Discovery and Data Mining (KDD-97) will follow up the success of KDD-95 and KDD-96 by bringing together researchers and application developers from different areas focusing on unifying themes.

## Suggested Topics

The topics of interest include, but are not limited to:

### Theory and Foundational Issues in KDD

• Probabilistic/statistical modeling and uncertainty management • Data and knowledge representation • Modeling of structured, unstructured and multimedia data • Fundamental advances in search, retrieval, and discovery methods

### Data Mining Methods and Algorithms

• Probabilistic and statistical models and methods • Algorithmic complexity, efficiency and scalability issues in data mining • Using prior domain knowledge and re-use of discovered knowledge • Data mining techniques implemented on scalable platforms, including parallel, distributed and clustered systems • High dimensional datasets and data preprocessing • Unsupervised discovery and predictive modeling

### KDD Process and Human Interaction

• Models of the KDD process • Methods for evaluating subjective relevance and utility • Data and knowledge visualization • Interactive data exploration and discovery • Privacy and security

### Applications

• Data mining systems and data mining tools • Application of KDD in business, science, medicine and engineering • Application of KDD methods for mining knowledge in text, image, audio, sensor, numeric, categorical or mixed format data • Resource and knowledge discovery using the Internet

This list of topics is not intended to be exhaustive but an indication of typical topics of interest. Prospective authors are encouraged to submit papers on any topics of relevance to knowledge discovery and data mining.

### Demonstration Sessions

KDD-97 also invites working demonstrations of discovery systems. Contact information for details is provided below.

## Submission and Review Criteria

Both research and applications papers are solicited. All submitted papers will be reviewed on the basis of technical quality, relevance to KDD, novelty, significance, and clarity. Authors are encouraged to make their work accessible to readers from other disciplines by including a carefully written introduction. Papers should clearly state their relevance to KDD.

Please submit 7 hardcopies of a short paper (a maximum of 9 single-spaced pages not including cover page and bibliography, 1 inch margins, and 12pt font) to be received by March 10, 1997. A cover page must include author(s) full address, email, paper title and a 200 word abstract, and up to 5 keywords. This cover page must accompany the paper. In addition, an ascii version of the cover page must be submitted electronically by March 3, 1997 (earlier if possible), preferably using a WWW form located at <http://www-aig.jpl.nasa.gov/kdd97/>. If the WWW form cannot be used, please submit the ascii cover page by email to [kdd97pgm@aig.jpl.nasa.gov](mailto:kdd97pgm@aig.jpl.nasa.gov), using the template available by ftp at <http://www-aig.jpl.nasa.gov/kdd97/>.

Please mail the 7 hardcopies of the full papers to:

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Web Site: <http://www.aaai.org>

## Important Dates

- Submissions Due: March 10, 1997
- Acceptance Notice: April 28, 1997
- Camera-ready paper due: May 26, 1997

## KDD-97 Organization

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### Program Cochairs

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Heikki Mannila (University of Helsinki, Finland)  
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## Contact Information

For further information, send inquiries to one of the following:

### Submission Logistics

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### Sponsorship and Industry Participation

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### Technical Program and Content

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### Demo and Poster Sessions

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### General and Publicity Issues

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