



The First International Conference on Knowledge Discovery and Data Mining (KDD-95)

Call for Papers

MONTRÉAL, QUÉBEC, CANADA, AUGUST 20 – 21, 1995

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Knowledge Discovery in Databases (KDD) and Data Mining are areas of common interest to researchers in machine learning, machine discovery, statistics, intelligent databases, knowledge acquisition, data visualization, high performance computing, and expert systems. The rapid growth of data and information created a need and an opportunity for extracting knowledge from databases, and both researchers and application developers have been responding to that need. KDD applications have been developed for astronomy, biology, finance, insurance, marketing, medicine, and many other fields. Core Problems in KDD include representation issues, search complexity, the use of prior knowledge, statistical inference, and algorithms for the analysis of massive amounts of data both in size and dimensionality.

Due to strong demand for participation and the growing demand for formal proceedings, it has become necessary to change the format of the previous KDD workshops to a conference with open attendance. This conference will continue in the tradition of the 1989, 1991, 1993, and 1994 KDD workshops by bringing together researchers and application developers from different areas, and focusing on unifying themes such as the use of domain knowledge, managing uncertainty, interactive (human-oriented) presentation, and applications. The topics of interest include:

- Foundational Issues and Core Problems in KDD
- Database Mining Tools and Applications
- Computationally Efficient Search for Structure in Data
- Interactive Data Exploration and Discovery
- Knowledge Representation Issues in KDD
- Data and Knowledge Visualization
- Data and Dimensionality Reduction
- Prior Domain Knowledge and Re-use of Discovered Knowledge
- Statistical and Probabilistic Aspects of KDD
- Dependency Models and Inference
- Machine Learning/Discovery Algorithms for Large Databases
- Managing Model Selection and Model Uncertainty
- Assessment of Model Predictive Performance
- Integrated Discovery Systems and Theories
- Parallel Techniques for Data Management and Search
- Security and Privacy Issues in Machine Discovery

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. We also invite working demonstrations of discovery systems. The conference program will include invited talks, a demo and poster session, and panel discussions. Active discussion format will be encouraged to maintain the workshop feel that previous participants found valuable and constructive. The conference proceedings will be published by AAAI. As in previous KDD Workshops, a selected set of KDD-95 papers will be considered for publication in journal special issues and as chapters in a book.

Please submit 5 *hardcopies* of a short paper (a maximum of 9 single-spaced pages not including cover page but including bibliography, 1 inch margins, and 12 pt. font) by March 3, 1995. A cover page must include author(s) full address, E-MAIL, a 200 word abstract, and up to 5 keywords. This cover page must accompany the paper. **In addition**, an electronic version of the cover page **must be sent by email** to kdd95@aig.jpl.nasa.gov by March 3, 1995.

Please mail the papers to : KDD-95, AAAI
445 Burgess Drive
Menlo Park, CA 94025-3496
U.S.A.

send e-mail queries regarding submissions logistics to: kdd@aaai.org

Important Dates

- Submissions Due: March 3, 1995
- Acceptance Notice: April 10, 1995
- Camera-ready paper due: May 12, 1995

Conference Cochairs

Please send technical program related queries to Program Cochairs:

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Industry Liaison

Please send inquiries about KDD-95 sponsorship and industry participation to:

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Conference Registration

Please send KDD-95 conference registration and related inquiries to:

KDD-95 • American Association for Artificial Intelligence • 445 Burgess Drive • Menlo Park, CA 94025-3496 USA • Telephone: 415/328-3123 • Fax:

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