Call for Papers

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)

The 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, using the template available by ftp at http://www-aig.jpl.nasa.gov/kdd97/

Please mail the 7 hardcopies of the full papers to:

AAAI (KDD-97)
445 Burgess Drive
Menlo Park, CA 94025-3442 USA
Phone: (+1 415) 328-3123
Fax: (+1 415) 321-4457
Email: kdd@aaai.org

Important Dates

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

KDD-97 Organization

General Conference Chair
Ramasamy Uthurusamy (General Motors Corporation, USA)

Program Cochairs
David Heckerman (Microsoft Research, USA)
Heikki Mannila (University of Helsinki, Finland)
Daryl Pregibon (AT&T Labs, USA)

Publicity Chair
Paul Stolorz (Jet Propulsion Laboratory, USA)

Tutorial Chair
Padhraic Smyth (UC Irvine, USA)

Demo and Poster Sessions Chair
Tej Anand (NCR Corporation, USA)

Awards Chair
Gregory Piatetsky-Shapiro (GTE Laboratories, USA)
Panel Chair
Willi Kloesgen (GMD, Germany)

Program Committee
Tej Anand, NCR, USA
Ron Brachman, AT&T Laboratories, USA
Carla Brodley, Purdue University, USA
Dan Carr, George Mason University, USA
Peter Cheeseman, NASA Ames Research Center, USA
David Cheung, University of Hong Kong, Hong Kong
Wesley Chu, University of California at Los Angeles, USA
Gregory Cooper, University of Pittsburgh, USA
Robert Cowell, City University, UK
Bruce Croft, University of Massachusetts at Amherst, USA
Bill Eddy, Carnegie Mellon University, USA
Charles Elkan, University of California at San Diego, USA
Usama Fayyad, Microsoft Research, USA
Ronen Feldman, Bar-Ilan University, Israel
Jerry Friedman, Stanford University, USA
Dan Geiger, Technion, Israel
Clark Glymour, Carnegie-Mellon University, USA
Moises Goldszmidt, Stanford Research Institute, USA
Jeawei Han, Simon Fraser University, Canada
Yannis Ioannidis, University of Wisconsin, USA
Larry Jackel, AT&T Laboratories, USA
David Jensen, University of Massachusetts, USA
Micheal Jordan, Massachusetts Institute of Technology, USA
Dan Keim, University of Munich, Germany
Willi Kloesgen, GMD, Germany
Ronny Kohavi, Silicon Graphics, USA
David Madigan, University of Washington, USA
Heikki Mannila, University of Helsinki, Finland
Brij Masand, GTE Laboratories, USA
Gary McDonald, General Motors Corporation, USA
Eric M Jolness, University of California at San Diego, USA
Sally Morton, Rand Corporation, USA
Richard Muntz, University of California at Los Angeles, USA
Raymond Ng, University of British Columbia, Canada
Steve Omohundro, N E C Research, USA
Gregory Piatetsky-Shapiro, GTE Laboratories, USA
Daryl Pregibon, Bell Laboratories, USA
Pat Riddle, Boeing Computer Services, USA
Ted Senator, N A S D., Inc., USA
Jude Shavlik, University of Wisconsin at Madison, USA
Wei-M in Shen, University of Southern California, USA
Arno Siebes, CWI, Netherlands
Avi Silberschatz, Bell Laboratories, USA
Evangelos Simoudis, IBM Almaden Research Center, USA
Andrzej Skowron, University of Warsaw, Poland

Contact Information
For further information, send inquiries to one of the following:
Submission Logistics
AAAI
kdd@aaai.org
Phone: 415-328-3123
Fax: 415-321-4457
Sponsorship and Industry Participation
Ramasamy Uthurusamy
samy@gmr.com
Phone: 810-696-0669
Fax: 810-696-0580
Technical Program and Content
kdd97pgm@aig.jpl.nasa.gov
Demo and Poster Sessions
Tej Anand
tanand@winhitc.atlantaga.ncr.com
General and Publicity Issues
kdd97@aig.jpl.nasa.gov