

SDM 2011

<http://www.siam.org/meetings/sdm11>

Eleventh SIAM International Conference on Data Mining



April 28th – April 30st 2011, Phoenix, Arizona, USA

ORGANIZATION

STEERING COMMITTEE CHAIR

Chandrika Kamath

Lawrence Livermore National Laboratory

GENERAL CHAIRS

Bing Liu

University of Illinois – Chicago

Huan Liu

Arizona State University

PROGRAM CHAIRS

Chris Clifton

Purdue University

Takashi Washio

Osaka University

WORKSHOP CHAIRS

Arindam Banerjee

University of Minnesota

Evimaria Terzi

Boston University

TUTORIAL CHAIR

Carlotta Domeniconi

George Mason University

PUBLICITY CHAIR

Rui Kuang

University of Minnesota

SPONSORSHIP CHAIRS

Amol Ghoting

IBM Research

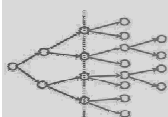
Marina Meila

University of Washington

LOCAL CHAIR

Jieping Ye

Arizona State University



2011 SIAM International
Conference on Data Mining
April 28-30, Phoenix, Arizona

Data mining is an important tool in science, engineering, industrial processes, healthcare, business, and medicine. The datasets in these fields are large, complex, and often noisy. Extracting knowledge requires the use of sophisticated, high-performance and principled analysis techniques and algorithms, based on sound theoretical and statistical foundations. These techniques in turn require implementations that are carefully tuned for performance; powerful visualization technologies; interface systems that are usable by scientists, engineers, and physicians as well as researchers; and infrastructures that support them.

This conference provides a venue for researchers who are addressing these problems to present their work in a peer-reviewed forum. It also provides an ideal setting for graduate students and others new to the field to learn about cutting-edge research by hearing outstanding invited speakers and attending presentations and tutorials (included with conference registration). A set of focused workshops are also held on the last day of the conference. The proceedings of the conference are published in archival form, and are also made available on the SIAM web site.

TOPICS OF INTEREST

Methods and Algorithms

- Classification
- Clustering
- Frequent Pattern Mining
- Probabilistic & Statistical Methods
- Spatial & Temporal Mining
- Data Stream Mining
- Abnormality & Outlier Detection
- Feature Selection/ Feature Extraction
- Dimension Reduction
- Data Reduction
- Mining with Constraints
- Data Cleaning & Noise Reduction
- Computational Learning Theory
- Multi-Task Learning
- Adaptive Algorithms
- Scalable & High-Performance Mining
- Mining Graphs
- Mining Semi structured Data
- Mining Complex Datasets
- Mining on Emerging Architectures
- Text & Web Mining
- Other Novel Methods

Applications

- Astronomy & Astrophysics
- High Energy Physics
- Collaborative Filtering

- Earth Science
- Risk Management
- Supply Chain Management
- Customer Relationship Management
- Finance
- Genomics & Bioinformatics
- Drug Discovery
- Healthcare Management
- Automation & Process Control
- Logistics Management
- Intrusion & Fraud detection
- Bio-surveillance
- Sensor Network Applications
- Social Network Analysis
- Intelligence Analysis
- Other Novel Applications & Case Studies

Human Factors and Social Issues

- Ethics of Data Mining
- Intellectual Ownership
- Privacy Models
- Privacy Preserving Data Mining & Data Publishing
- Risk Analysis
- User Interfaces
- Interestingness & Relevance
- Data & Result Visualization

WORKSHOPS AND TUTORIALS

The conference will feature workshops and tutorials on several special topics. Please see the SDM 2011 website for submission requirements. Examples of workshops and tutorials are available through the SDM 2010 website (<http://www.siam.org/meetings/sdm10/>).

IMPORTANT DATES

Paper Submission:

11:59pm, October 15, 2010 (PST)

Author Notification:

December 22, 2010

Workshop/Tutorial Proposals:

11:59pm, October 15, 2010 (PST)