



The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining

21-24 June, 2010 - Hyderabad, India

Latest NEWS

- PAKDD 2010 in the [news](#)
- 2 Aug 2010: PAKDD photos can be seen here: [Day1](#), [Day2](#), [Day3](#), [Day4](#).
- 2 July 2010: The conference papers are available at the following links.

LNAI 6118:

Info at: <http://www.springeronline.com/978-3-642-13656-6>

Papers at: <http://www.springerlink.com/content/978-3-642-13656-6/>

LNAI 6119:

Info at: <http://www.springeronline.com/978-3-642-13671-9>

Papers at: <http://www.springerlink.com/content/978-3-642-13671-9/>

- 15 June 2010: All PAKDD-2010 participants are requested to visit the [general information](#) and [FAQ](#) page.
- 13 June 2010: All PAKDD-2010 participants are requested to submit arrival and departure details [here](#).
- 20 Apr 2010: PAKDD 2010 Program [here](#).
- 7 Apr 2010: Accommodation [details](#) and Venue [details](#) available.
- Proceedings will be published by publication of the proceedings in [Lecture Notes in Artificial Intelligence \(LNAI\)](#).



About PAKDD

The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2010) is a leading international conference in the areas of data mining and knowledge discovery. It provides an international forum for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from all KDD related areas including data

mining, data warehousing, machine learning, databases, statistics, knowledge acquisition and automatic scientific discovery, data visualization, causal induction and knowledge-based systems. The conference calls for research papers reporting original investigation results and industrial track papers reporting real data mining applications and system development experience. The conference also solicits proposals for tutorials on crucial technologies of knowledge discovery and data mining, and calls for workshop proposals focusing on specific new challenges and emerging issues of knowledge discovery and data mining.

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Call for Papers and Proposals
**The Fourteenth Pacific-Asia Conference on Knowledge
Discovery and Data Mining (PAKDD-2010)**

21 – 24 June, 2010, Hyderabad, India
<http://www.iiit.ac.in/conferences/pakdd2010/>

Aims of the Conference

The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2010) is a leading international conference in the area of data mining and knowledge discovery. It provides an international forum for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from all KDD related areas including data mining, data warehousing, machine learning, databases, statistics, knowledge acquisition and automatic scientific discovery, data visualization, causal induction and knowledge-based systems.

The conference calls for research papers reporting original investigation results and industrial track papers reporting real data mining applications and system development experience. The conference also solicits proposals for tutorials on crucial technologies of knowledge discovery and data mining, and calls for workshop proposals focusing on specific new challenges and emerging issues of knowledge discovery and data mining.

In previous years, the proceedings of PAKDD have been published in LNCS and we are planning to publish this year proceedings also in LNCS.

Areas of Interests

The topics of relevance for the conference papers include but are not limited to the following:

Theoretical Foundations of Data Mining
Novel Algorithms for Mining
Association Rules
Classification and Ranking
Clustering
Text Mining
Machine Learning Methods
Statistical Methods for Data Mining
Privacy Preserving Data Mining
Parallel and Distributed Data Mining
Interactive and Online Mining
Graph Mining
KDD Process and Human Interaction
Data and Knowledge Visualization
Knowledge Management
Mining High Dimensional Data
Mining Temporal Data
KDD in Biomedical Domains
Dynamic Data Mining
Mining Scientific Databases
Mining Semi-structured/unstructured Data
Mining Spatial Data
Mining Multimedia Data
Web Data and the Internet
Mining in Online Gaming and Virtual Worlds
Social Network Analysis
Integrated Media Mining
Security and Intrusion Detection
Reliability and Robustness Issues
Mining Noisy Data
Mining Trends, Opportunities or Risks
Integration of Data Warehousing, OLAP and Data Mining

Graphic Model Discovery
Software Warehouse and Software Mining

Proposals for Tutorials and Workshops: Tutorial proposals must clearly identify the intended audience. A proposal should include, in English, a description and outline of the proposed contents; names, affiliations, and biographical sketches of the speakers. The intended length of the tutorial (3 or 6 hours) should also be indicated. Submit the proposals by e-mail to Tutorial/Workshop chairs.

Key Dates

Paper Submission deadline	30 Nov, 2009
Notification to Authors	30 Jan, 2010
Camera-ready copy	28 Feb, 2010
Workshop proposals	31 Dec, 2009
Tutorial Proposals	28 Feb, 2010
Conference Dates	21-24 June, 2010

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PAKDD-2010 Secretariat

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Keynote Speakers



Dr. Wei Ying Ma

Microsoft Research Asia, China

Homepage: <http://research.microsoft.com/en-us/press/wyma.aspx>

Title: Empowering People with Knowledge: The Next Frontier for Web Search

Abstract:

The Web is continuing to evolve at a rapid pace, with the emergence of cloud computing promising to create a new platform for software development and service delivery. One of the greatest opportunities of this new era is the cultivation of a developer ecosystem that can produce millions of micro-vertical services and applications, working together to serve each and every user information need. In this new world, there is an opportunity to build a more powerful and intelligent search engine that both understands what users are trying to accomplish and cooperates with users as they learn, make decisions and take actions. In this talk, I will first discuss some significant trends in cloud computing, before sharing my thoughts on how we can leverage these trends to create both innovative and disruptive technologies for Web search.

Biography:

Dr. Wei-Ying Ma is an Assistant Managing Director at Microsoft Research Asia where he oversees multiple research groups including Web Search and Data Mining, Natural Language Computing, and Human Computer Interaction.

Over the years, under his leadership, Wei-Ying's team of researchers have been recognized as one of the global powerhouses in search, data mining, and multimedia information retrieval related research. The team transferred key technologies into Microsoft's search and online service products. In addition, they published extensively at major conferences such as the SIGIR, WWW, and ACM Multimedia.

Before joining Microsoft in 2001, Wei-Ying was with HP Labs in Palo Alto, California where he worked in the fields of multimedia adaptation and distributed media services infrastructure. From 1994 to 1997, Wei-Ying was engaged in the Alexandria Digital Library project at the University of

California, Santa Barbara. During this time, he developed one of the first web-based image-retrieval systems, Netra, which is regarded as one of the most influential image retrieval systems.

As an active member of the research community, Wei-Ying has published more than 250 papers at international conferences. He currently serves on the editorial boards of ACM Transactions on Information System (TOIS) and ACM/Springer Multimedia Systems Journal. In recent years, he served as program co-chair of WWW 2008, program co-chair of PCM 2007, general co-chair of AIRS 2008, and general co-chair of MMM 2005.

Wei-Ying received a bachelor of science in electrical engineering from the National Tsing Hua University in Taiwan in 1990. He earned a Master of Science degree and doctorate in electrical and computer engineering from the University of California at Santa Barbara in 1994 and 1997, respectively.



Prof. Y. Narahari

Indian Institute of Science, Bangalore, India

Homepage: <http://lcm.csa.iisc.ernet.in/hari/>

Title: Game Theoretic Approaches to Knowledge Discovery and Data Mining

Abstract:

Game theory is replete with brilliant solution concepts such as the Nash equilibrium, the core, the Shapley value, etc. These solution concepts and their extensions are finding widespread use in solving several fundamental problems in knowledge discovery and data mining. The problems include clustering, classification, discovering influential nodes, social network analysis, etc. The

first part of the talk will present the conceptual underpinnings underlying the use of game theoretic techniques in such problem solving. The second part of the talk will delve into two problems where we have recently obtained some interesting results: (a) discovering influential nodes in social networks using the Shapley value and (b) identifying topologies of strategically formed social networks using a game theoretic approach.

Biography:

Y. Narahari is currently Professor and Chair at the Department of Computer Science and Automation, Indian Institute of Science, Bangalore. The focus of his current research is to apply Game Theory and Mechanism Design to problems in Internet and Network Economics, Electronic Commerce, and Social Networks. He is the lead author of a research monograph entitled "Game Theoretic Problems in Network Economics and Mechanism Design Solutions" published recently

by Springer, London.

He is a Fellow of IEEE, a J.C. Bose National Fellow, and a Fellow of all leading science and engineering academies in India. The global companies with whom he has collaborated in the recent past include GM R & D, Intel, Infosys Technologies, and Xerox Corporation. He is currently a Senior Editor of the IEEE Transactions on Automation Science and Engineering.



Prof. Vipin Kumar

University of Minnesota, Minneapolis, USA.

Homepage: <http://www-users.cs.umn.edu/~kumar/>

Title: Discovery of Patterns in Global Earth Science Data using Data Mining

Abstract:

The climate and earth sciences have recently undergone a rapid transformation from a data-poor to a data-rich environment. In particular, climate and ecosystem related observations from remote sensors on satellites, as well as outputs of climate or earth system models from large-scale computational platforms, provide terabytes of temporal, spatial and spatio-temporal data.

These massive and information-rich datasets offer huge potential for understanding and predicting the behavior of the Earth's ecosystem and for advancing the science of climate change.

However, mining patterns from Earth Science data is a difficult task due to the spatio-temporal nature of the data. This talk will discuss various challenges involved in analyzing the data, and present some of our work on the design of algorithms for finding spatio-temporal patterns from such data and their applications in discovering interesting relationships among ecological variables from various parts of the Earth. A special focus will be on techniques for land cover change detection (and their use in assessing the impact on carbon cycle) and finding teleconnections between ocean and land variables.

Biography:

Vipin Kumar is currently William Norris Professor and Head of Computer Science and Engineering at the University of Minnesota. His research interests include High Performance computing and data mining. He has authored over 250 research articles, and co-edited or coauthored 10 books including the widely used text book "Introduction to Parallel Computing", and "Introduction to Data Mining" both published by Addison-Wesley. Kumar has served as chair/co-chair for over a dozen conferences/workshops in the area of data mining and parallel computing.

In 2001, Kumar co-founded SIAM International Conference on Data Mining and served as its

steering committee chair until 2007. Kumar is a founding co-editor-in-chief of Journal of Statistical Analysis and Data Mining, editor-in-chief of IEEE Intelligent Informatics Bulletin, and series editor of Data Mining and Knowledge Discovery Book Series published by CRC Press/Chapman Hall. Kumar is a Fellow of the AAAS, ACM and IEEE. He received the 2009 Distinguished Alumnus Award from the Computer Science Department, University of Maryland College Park, and 2005 IEEE Computer Society's Technical Achievement Award for contributions to the design and analysis of parallel algorithms, graph-partitioning, and data mining.

2010 PAKDD

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The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining

21-24 June, 2010 - Hyderabad, India

Welcome Message

WELCOME TO PAKDD-2010 Delegates!!!

On behalf of Local Arrangements Committee (LAC), we thank you for your registration for 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-2010) being held at Hyderabad from 21 to 24 June 2010.

Program Committee has finalized entire program for all papers for main conference, workshops and tutorials as given on the conference website. The insertion material which will be given as part of your registration kit is free of cost. We have published limited number of copies of PAKDD-2010 Proceedings which will be available to delegates during registration for those only entitled. If few others want to purchase the same, a nominal cost of Rs.5000 can be paid at the registration desk to get a copy.

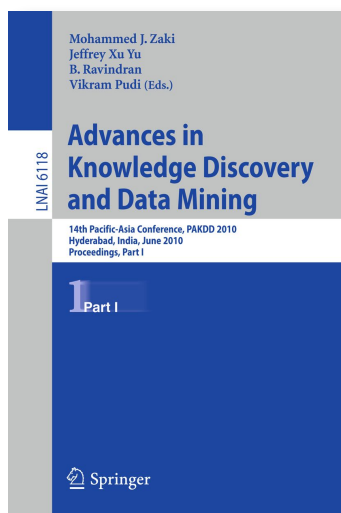
We have planned both reception and banquet dinners at the conference venue keeping in view of rainy season. You are also recommended to carry a rain jacket and a small umbrella, if possible. Do not hesitate to get in touch with PAKDD-2010 Secretariat, if you have any queries. Please go through the [general information](#) for the participants and the [FAQs](#) before contacting us.

P Krishna Reddy

R K BAGGA

General Chair

Chair, Local Arrangements Committee



M.J. Zaki, Rensselaer Polytechnic Institute, Troy, NY, USA; **J.X. Yu**, The Chinese University of Hong Kong, China; **B. Ravindran**, IIT Madras, Chennai, India; **V. Pudi**, IIIT Hyderabad, India (Eds.)

Advances in Knowledge Discovery and Data Mining, Part I

14th Pacific-Asia Conference, PAKDD 2010, Hyderabad, India, June 21-24, 2010, Proceedings

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