

Preface

The 7th Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD) was held from April 30 to May 2, 2003 in the Convention and Exhibition Center (COEX), Seoul, Korea. The PAKDD conference is a major forum for academic researchers and industry practitioners in the Pacific Asia region to share original research results and development experiences from different KDD-related areas such as data mining, data warehousing, machine learning, databases, statistics, knowledge acquisition and discovery, data visualization, and knowledge-based systems. The conference was organized by the Advanced Information Technology Research Center (AITrc) at KAIST and the Statistical Research Center for Complex Systems (SRCCS) at Seoul National University. It was sponsored by the Korean Datamining Society (KDMS), the Korea Information Science Society (KISS), the United States Air Force Office of Scientific Research, the Asian Office of Aerospace Research & Development, and KAIST. It was held with cooperation from ACM's Special Group on Knowledge Discovery and Data Mining (SIGKDD).

In its seventh year, PAKDD has reached new heights of recognition as a quality forum for the dissemination and discussion of KDD research. This is evident from the high number of submissions and the highly selective nature of the review process. Out of 215 submissions, only 38 were selected as full papers, and 20 as short papers for inclusion in the proceedings. Given this, we were unable to accommodate many high-quality papers. We thank the authors of all submitted papers for their efforts, which provided the basic ingredient for developing an exceptionally solid technical program. PAKDD has become a truly international forum, as is evident from the fact that papers were submitted from 22 countries across six continents. Similarly, the program committee consisted of 70 members from five continents.

The PAKDD 2003 technical program was enhanced by two keynote speeches, delivered by Dr. Rakesh Agrawal of IBM's Almaden Research Center and Prof. Andrea Buja of the University of Pennsylvania. In addition to the main technical program, PAKDD 2003 also had two tutorials, namely Data Mining for Intrusion Detection (by Aleksandar Lazarevic, Jaideep Srivastava and Vipin Kumar), and Analyzing and Mining Data Streams (by Sudipto Guha and Nick Koudas). Finally, two international workshops, titled "Mining Data for Actionable Knowledge," and "Biological Data Mining," were also organized in conjunction with this meeting. Articles in these workshops are being published separately.

The conference would not have been a success without help from many people, and our thanks go to all of them. We would like to express our special thanks to our honorary chairs, Won Kim at Cyber Database Solutions and Sukho Lee at Seoul National University for providing valuable advice on all aspects of the conference's organization. We also extend our sincere thanks to the international advisory committee members, Dr. Rakesh Agrawal, Prof. Jiawei Han, and Dr.

Kuan-Tsae Huang for their moral support. We owe a great debt to the program committee members for doing their reviews in a timely manner. This is especially commendable, given that most of the reviews were done during the holidays and at short notice. Sang Kyun Cha and Rajeev Rastogi solicited and selected excellent tutorials. Doheon Lee and Bongki Moon arranged several workshops on interesting topics. Ramakrishnan Srikant ensured excellent talks from experienced leaders from industry. Jaehee Cho solicited valuable industry support and coordinated industry demonstrations. Myoung Kim and Byung S. Lee did a tremendous job in distributing the CFP to solicit papers. Byung Yeon Hwang ensured a smooth and successful registration process. Yong Chul Oh, Sungzoon Cho and Jinho Kim handled the local arrangements exceptionally well. As publications chair, Byoung-Kee Yi ensured that all authors submitted the final versions of their papers in a timely and error-free manner. The high-quality proceedings and tutorial notes are a result of this effort. Eui Kyeong Hong and Won Chul Jhee ensured the smooth operation of the conference. Needless to say, all members of the Steering Committee provided their full support in making PAKDD 2003 a success.

April 2003

Kyu-Young Whang
Jongwoo Jeon
Kyuseok Shim
Jaideep Srivataava

PAKDD 2003 Conference Committee

Honorary Chairs:

Won Kim	Cyber Database Solutions, USA, Ewha Womans University, Korea
Sukho Lee	Seoul National University, Korea

International Advisory Committee:

Rakesh Agrawal	IBM Almaden Research Center, USA
Jiawei Han	University of Illinois, Urbana-Champaign, USA
Kuan-Tsae Huang	Taskco Corporation, Taiwan
Jongwoo Jeon	Seoul National University/SRCCS, Korea

Conference Chair:

Kyu-Young Whang	KAIST/AITrc, Korea
-----------------	--------------------

Program Chairs:

Kyuseok Shim	Seoul National University/AITrc, Korea
Jaideep Srivastava	University of Minnesota, USA

Workshop Chairs:

Doheon Lee	KAIST, Korea
Bongki Moon	University of Arizona, USA

Tutorial Chairs:

Sang Kyun Cha	Seoul National University, Korea
Rajeev Rastogi	Lucent Bell Labs, USA

Industrial Program Chairs:

Jaehee Cho	Kwangwoon University, Korea
Ramakrishnan Srikant	IBM Almaden Research Center, USA

Publication Chair:

Byoung-Kee Yi	POSTECH, Korea
---------------	----------------

Registration Chair:

Byung Yeon Hwang	Catholic University of Korea, Korea
------------------	-------------------------------------

Publicity Chairs:

Myung Kim	Ewha Womans University, Korea
Byung S. Lee	University of Vermont, USA

Local Arrangements:

Yong Chul Oh	Korea Polytechnic University, Korea (Chair)
--------------	---

VIII Organization

Sungzoon Cho
Jinho Kim

Seoul National University, Korea
Kangwon National University/AITrc, Korea

Organization Committee:

Eui Kyeong Hong
Won Chul Jhee

University of Seoul/AITrc, Korea
Hongik University, Korea

PAKDD Steering Committee:

Hongjun Lu

Hong Kong University of Science
and Technology,
Hong Kong (Chair)

Hiroshi Motoda
Arbee L.P. Chen
Ming-Syan Chen
David W. Cheung
Masaru Kitsuregawa
Rao Kotagiri
Huan Liu
Takao Terano
Graham Williams
Ning Zhong
Lizhu Zhou

Osaka University, Japan (Co-chair)
National Tsing Hua University, Taiwan
National Taiwan University, Taiwan
University of Hong Kong, Hong Kong
University of Tokyo, Japan
University of Melbourne, Australia
Arizona State University, USA
University of Tsukuba, Japan
CSIRO, Australia
Maebashi Institute of Technology, Japan
Tsinghua University, China

PAKDD 2003 Program Committee

Raj Acharya	Pennsylvania State University, USA
Roberto Bayardo	IBM Almaden Research Center, USA
Elisa Bertino	University of Milano, Italy
Bharat Bhasker	Indian Institute of Management Lucknow, India
Paul Bradley	digiMine, USA
Arbee L.P. Chen	National Tsing Hua University, Taiwan
Ming-Syan Chen	National Taiwan University, Taiwan
David Cheung	University of Hong Kong, Hong Kong
Daewoo Choi	Hankuk University of Foreign Studies, Korea
Gautam Das	Microsoft Research, USA
Umesh Dayal	HP Labs, USA
Usama Fayyad	digiMine, USA
Venkatesh Ganti	Microsoft Research, USA
Minos Garofalakis	Lucent Bell Labs, USA
Johannes Gehrke	Cornell University, USA
Joydeep Ghosh	University of Texas, Austin, USA
Dimitrios Gunopoulos	University of California, Riverside, USA
Shyam Kumar Gupta	Indian Institute of Technology Delhi, India
Sudipto Guha	University of Pennsylvania, USA
Jayant R. Haritsa	Indian Institute of Science, India
San-Yih Hwang	National Sun-Yat Sen University, Taiwan
Soon Joo Hyun	Information and Communication University, Korea
H.V. Jagadish	University of Michigan, USA
Myoung Ho Kim	KAIST, Korea
Masaru Kitsuregawa	University of Tokyo, Japan
Rao Kotagiri	University of Melbourne, Australia
Nick Koudas	AT&T Research, USA
Vipin Kumar	University of Minnesota, USA
Laks V.S. Lakshmanan	University of British Columbia, Canada
Aleks Lazarevic	University of Minnesota, USA
Kyuchul Lee	Chungnam National University, Korea
Sangho Lee	Soongsil University, Korea
Sang-goo Lee	Seoul National University, Korea
Yoon-Joon Lee	KAIST, Korea
Yugi Lee	University of Missouri, Kansas City, USA
Jianzhong Li	Harbin Institute of Technology, China
Ee-Peng Lim	Nanyang Technological University, Singapore
Tok Wang Ling	National University of Singapore, Singapore
Bing Liu	University of Chicago, USA
Huan Liu	Arizona State University, USA
Hongjun Lu	Hong Kong University of Science and Technology, Hong Kong

Akifumi Makinouch	Kyushu University, Japan
Heikki Mannila	Nokia, Finland
Yoshifumi Masunaga	Ochanomizu University, Japan
Hiroshi Motoda	Osaka University, Japan
Rajeev Motwani	Stanford University, USA
Sham Navathe	Georgia Institute of Technology, USA
Raymond Ng	University of British Columbia, Canada
Beng Chin Ooi	National University of Singapore, Singapore
T.V. Prabhakar	Indian Institute of Technology Kanpur, India
Raghu Ramakrishnan	University of Wisconsin, USA
Keun Ho Ryu	Chungbuk National University, Korea
Shashi Shekhar	University of Minnesota, USA
Kian-Lee Tan	National University of Singapore, Singapore
Pang-Ning Tan	University of Minnesota, USA
Takao Terano	University of Tsukuba, Japan
Bhavani Thuraisingham	National Science Foundation, USA
Hannu T.T. Toivonen	Nokia Research, Finland
Jau-Hwang Wang	Central Police University, Taiwan
Shan Wang	Renmin University of China, China
Richard Weber	University of Chile, Chile
Graham Williams	CSIRO, Australia
You-Jip Won	Hanyang University, Korea
Xindong Wu	University of Vermont, USA
Yong-Ik Yoon	Sookmyung Women's University, Korea
Philip S. Yu	IBM T.J. Watson Research Center, USA
Mohammed Zaki	Rensselaer Polytechnic Institute, USA
Ning Zhong	Maebashi Institute of Technology, Japan
Aoying Zhou	Fudan University, China
Lizhu Zhou	Tsinghua University, China

PAKDD 2003 External Reviewers

Zaher Aghbari	Jukka Kohonen
Lili Aunimo	Eunbae Kong
Ilkka Autio	David W.-Y. Kwong
James Bailey	Kari Laasonen
Vasudha Bhatnagar	Ighoon Lee
Cristian Bucila	Carson K.-S. Leung
Jaehyuk Cha	Chai Han Lin
Jaeyoung Chang	Xueyuan Lin
Li-Ging Chao	Ning-Han Liu
Hung-Chen Chen	Yi-Ching Liu
Shian-Ching Chen	Juha Makkonen
Yi-Wen Chen	Naoyuki Nomura
Ru-Lin Cheng	Aysel Ozgur
Ding-Ying Chiu	B. Uygur Oztekin
Chung-Wen Cho	U.K. Padmaja
Kun-Ta Chuang	Dimitris Papadopoulos
Zeng Chun	Neoklis Polyzotis
Yon-Dohn Chung	Iko Pramudiono
Manoranjan Dash	Vani Prasad
Prasanna Desikan	V. Pratibha
Koji Eguchi	Vikram Pudi
Eric Eilertson	Weining Qian
Levent Ertöz	Mirek Riedewald
Yi-Sheng Fan	Junho Shim
Takeshi Fukuda	Takahiko Shintani
Deepak Gupta	Sridhar
Ming Hsu	K. Srikumar
Keyun Hu	Suresha
Jiun-Long Huang	Eng Koon Sze
Noriko Imafuji	Taehee
Nuanjiang Jin	Katsumi Takahashi
Xiaoming Jin	Fengzhan Tian
Kunihiko Kaneko	Anthony K.H. Tung
Hung-Yu Kao	Foula Vagena
Harish Karnick	Yitong Wang
Eamonn Keogh	Yew-Kwong Woon
Ravi Khemani	Du Xiaoping
Alok Khemka	Hui Xiong
Daniel Kifer	Lei Yu
Han-Joon Kim	Zhiqiang Zhang
Yongdai Kim	Shuigeng Zhou

Sponsorship

We wish to thank the following organizations for their contributions to the success of this conference. We note that AFOSR/AOARD support is not intended to imply endorsement by the US federal government.

Major Sponsors



Advanced Information Technology
Research Center, KAIST



Statistical Research Center for
Complex Systems, SNU

Academic Sponsors

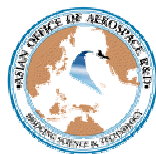


Korea Information Science Society



The Korean Datamining Society

Sponsors



Asian Office of Aerospace
Research & Development



Air Force Office of
Scientific Research



Korea Advanced
Institute of Science and
Technology

In Cooperation with



ACM/SIGKDD

Advances in Knowledge Discovery and Data Mining
7th Pacific-Asia Conference, PAKDD 2003. Seoul, Korea,
April 30 - May 2, 2003, Proceedings
Whang, K.-Y.; Jeon, J.; Shim, K.; Srivastava, J. (Eds.)
2003, XVIII, 614 p., Softcover
ISBN: 978-3-540-04760-5