2004 IEEE/WIC/ACM International Conference on Web Intelligence
2004 IEEE/WIC/ACM International Conference on Intelligent Agent Technology

Final Program

WI'04 and IAT'04

September 20-24, 2004

King Wing Hot Spring Hotel, Beijing, China

Welcome Message

Welcome to the 2004 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI'04 and IAT'04). On behalf of the WI'04 and IAT'04 Conference Committees, we would like to thank you for coming to WI'04 and IAT'04, and we hope you will enjoy the conference technical and social programs as well as the beautiful city of Beijing, China.

The WI'04 and IAT'04 conferences are sponsored and organized by the IEEE Computer Society Technical Committee on Computational Intelligence (TCCI), Web Intelligence Consortium (WIC), and ACM SIGART.

Web Intelligence (WI) is a field of scientific research and development that deals with the fundamental roles as well as practical impacts of Artificial Intelligence (AI) and advanced Information Technology (IT) on the next generation of Web-empowered products, systems, services, and activities. Following the great success of WI'01 held in Maebashi City, Japan in 2001 and WI'03 held in Halifax, Canada in 2003, WI'04 will provide a leading international forum for researchers and practitioners (1) to present the state-of-the-art WI technologies and (2) to cross-fertilize ideas on the development of Web-based intelligent information systems among different domains.

IAT'04 follows the great success of IAT'99 held in Hong Kong in 1999, IAT'01 held in Maebashi City, Japan in 2001, and IAT'03 held in Halifax, Canada in 2003. The aim of IAT'04 is to bring together researchers and practitioners from diverse fields, such as artificial intelligence, software engineering, Internet computing, computational sciences, business, and robotics and automation. By encouraging idea-sharing and discussions on the underlying logical, cognitive, physical, and biological foundations as well as the enabling technologies of intelligent agents, IAT'04 is expected to stimulate the future development of new models, new methodologies, and new tools for building a variety of embodiments of agent-based systems.

With the strong support of world-renowned researchers and practitioners from the international WI and IAT communities, the IEEE/WIC/ACM Joint Conference has received an overwhelming response compared to any other related conferences this year. WI'04 and IAT'04 received 641 submissions (375 for WI'04 and 266 for IAT'04) to the research and industry tracks from over 42 countries and regions. In addition, we also received 63 demo proposals to the demo track.

The submitted full-length papers went through a rigorous reviewing process: Each of the 641 submissions was reviewed by at least two program committee members, and the borderline cases were re-reviewed by additional program committee members and chair(s). As a result, approximately 16% of the 375 WI'04 submissions were accepted as regular papers and 20% of them were accepted as short papers. For IAT'04, around 16% of the 266 submissions were accepted as regular papers and 22% of them were accepted as short papers. In addition to the paper and demo presentations at the research, industry, and demo tracks, our technical program also features 6 keynote/invited talks, 7 workshops, and 3 tutorials.

Any successful, high-quality conference would require enormous efforts and expertise of many committed people. Here, we would like to thank Organizing Chairs (Tieyong Zuo, Chongzheng Sun, and Chunnian Liu), Program Co-chairs (WI-Track: Henry Tirri, Yiyu Yao, and Lizhu Zhou; IAT-Track: Jeffrey Bradshaw, Sankar K. Pal, and Domenico Talia), Industry Track Chairs (Qiang Yang and Wei-Ying Ma), Workshop Chair (Pawan Lingras), Tutorial Chair (Gerd Wagner), Publicity Chair (Yuefeng Li), Local Arrangement Chairs (Shujie Zhang and Baocai Yin), WI'04 and IAT'04 Conference Secretariats (Jia Hu and Jiajin Huang), and all vice chairs and members of WI'04 and IAT'04 program committees as well as appointed reviewers for the countless hours they devoted to the conference organization and review activities. Special thanks go to IEEE-CS-TCCI Chair (Xindong Wu), ACM-SIGART Chair (Maria Gini), WIC Advisory Board members (Edward A. Feigenbaum, Setsuo Ohsuga, Benjamin Wah, Philip Yu, and L.A. Zadeh), and WIC Technical Committee & WI/IAT Steering Committee members (Nick Cercone, Dieter Fensel, Georg Gottlob, Lakhmi Jain, W. Lewis Johnson, Jianchang Mao, Hiroshi Motoda, Toyoaki Nishida, Xindong Wu, and Yiyu Yao) for their constant support.

The conference Web support team of WIC did a wonderful job in putting together and maintaining the homepages for WI'04 and IAT'04 as well as the Cyber-Chair software, an intelligent agent for conference management and communications among conference organizers, program committee members, and authors/attendees.

We would like to express our special appreciation to our world-class keynote/invited speakers: John McCarthy, Boi B. Faltings, Carl Kesselman, Victor Lesser, Tom Mitchell, and Xindong Wu.

Last but not the least, we would like to thank all the authors of submitted papers and the attendees for their contribution and participation. Without their strong support, we could not have a successful conference.

Jiming Liu, Nick Cercone
WI'04 and IAT'04 Conference Chairs

Ning Zhong
WI'04 and IAT'04 Program Chair

Organizing Committee

Conference Chairs
Jiming Liu, *Hong Kong Baptist University, HK*
Nick Cercone, *Dalhousie University, Canada*
Program Chair
Ning Zhong, *Maebashi Institute of Technology, Japan*
WI Track Program Co-Chairs
Henry Tirri, *University of Helsinki, Finland*
Yiyu Yao, *University of Regina, Canada*
Lizhu Zhou, *Tsinghua University, China*
IAT Track Program Co-Chairs
Jeffrey Bradshaw, *UWF/Institute for Human and Machine Cognition, USA*
Sankar K. Pal, *Indian Statistical Institute, Inida*
Domenico Talia, *University of Calabria, Italy*
Industry/Demo Track Chairs
Qiang Yang, *Hong Kong University of Science and Technology, HK*
Wei-Ying Ma, *Microsoft Research Asia, China*
Workshop Chair
Pawan Lingras, *Saint Mary's University, Canada*
Tutorial Chair
Gerd Wagner, *Eindhoven University of Technology, The Netherlands*
Publicity Chair
Yuefeng Li, *Queensland University of Technology, Australia*
Organizing Chairs
Tieyong Zuo, *Beijing University of Technology, China*
Chongzheng Sun, *Beijing University of Technology, China*
Chunnian Liu, *Beijing University of Technology, China*
Local Arrangement Chairs
Shujie Zhang, *Beijing University of Technology, China*
Baocai Yin, *Beijing University of Technology, China*
IEEE CS TCCI Chair
Xindong Wu, *University of Vermont, USA*
WIC Co-Chairs and Co-Directors
Ning Zhong, *Maebashi Institute of Technology, Japan*
Jiming Liu, *Hong Kong Baptist University, HK*
ACM SIGART Chair
Maria Gini, *University of Minnesota, USA*
WIC Advisory Board
Edward A. Feigenbaum, *Stanford University, USA*
Setsuo Ohsuga, *Waseda University, Japan*
Benjamin Wah, *University of Illinois, Urbana-Champaign, USA*
Philip Yu, *IBM T.J. Watson Research Center, USA*
L.A. Zadeh, *University of California, Berkeley, USA*
WIC Technical Committee and WI/IAT Steering Committee
Nick Cercone, *Dalhousie University, Canada*
Dieter Fensel, *University of Innsbruck, Austria*
Georg Gottlob, *Vienna University of Technology, Austria*
Lakhmi Jain, *University of South Australia, Australia*
W. Lewis Johnson, *University of Southern California, USA*
Jianchang Mao, *Verity Inc., USA*
Hiroshi Motoda, *Osaka University, Japan*
Toyoaki Nishida, *the University of Tokyo, Japan*
Xindong Wu, *University of Vermont, USA*
Yiyu Yao, *University of Regina, Canada*

Program Committees

Program Chair
Ning Zhong, *Maebashi Institute of Technology, Japan*
WI Track Program Co-Chairs
Henry Tirri, *University of Helsinki, Finland*
Yiyu Yao, *University of Regina, Canada*
Lizhu Zhou, *Tsinghua University, China*
IAT Track Program Co-Chairs
Jeffrey Bradshaw, *UWF/Institute for Human and Machine Cognition, USA*
Sankar K. Pal, *Indian Statistical Institute, Inida*
Domenico Talia, *University of Calabria, Italy*
WI Track Program Vice Chairs
Sonia Bergamaschi, *University of Modena and Reggio Emilia, Italy*
Peter Brusilovsky, *University of Pittsburgh, USA*
Mario Cannataro, *University Magna GreAia of Catanzaro, Italy*
Joongmin Choi, *Hanyang University, Korea*
Wen Gao, *Chinese Academy of Sciences, China*
Charles X. Ling, *University of Western, Canada*
Pierre Morizet-Mahoudeaux, *University of Technology of Compiegne, France*
Toyoaki Nishida, *University of Tokyo, Japan*
Tomohiro Takagi, *Meiji University, Japan*
Takahira Yamaguchi, *Keio University, Japan*
Soe-Tsyr Yuan, *National Chengchi University, Taiwan*
Liang-Jie Zhang, *IBM T.J. Watson Research Center, USA*
IAT Track Program Vice Chairs
Karl Aberer, *EPFL, Switzerland*
Ali Ghorbani, *University of New Brunswick, Canada*
Matthias Klusch, *German Research Center for Artificial Intelligence, Germany*
Marius Silaghi, *Florida Institute of Technology at Melbourne, USA*
Ron Sun, *Rensselaer Polytechnic Institute, USA*
John Yen, *Pennsylvania State University, USA*
Makoto Yokoo, *NTT Communication Science Lab, Japan*
Franco Zambonelli, *University of Modena and Reggio Emilia, Italy*
Chengqi Zhang, *University of Technology, Australia*
WI'04 Program Committee Members
Ajith Abraham, *Oklahoma State University, USA*
Lora Aroyo, *Eindhoven University of Technology, The Netherlands*
Anupriya Ankolekar, *Carnegie Mellon University, USA*
Jeanpaul Barthes, *University of Compiegne, France*
Hendrik Blockeel, *Katholieke Universiteit Leuven, Belgium*
Omar Boucelma, *LSIS-CNRS, Marseille, France*
Peter Brezany, *University of Vienna, Austria*
Christoph Bussler, *National University of Ireland, Ireland*
Cory Butz, *University of Regina, Canada*
Lawrence Cavedon, *Stanford University, USA*
Keith C.C. Chan, *Hong Kong Polytechnic University, HK*
Yiu-Ming Cheung, *Hong Kong Baptist University, HK*
William Kwok-Wai Cheung, *Hong Kong Baptist University, HK*
David Cheung, *University of Hong Kong, HK*
Nigel Collier, *National Institute of Informatics, Japan*
Ying Ding, *University of Innsbruck, Austria*
Jesus Favela, *CICESE, Mexico*
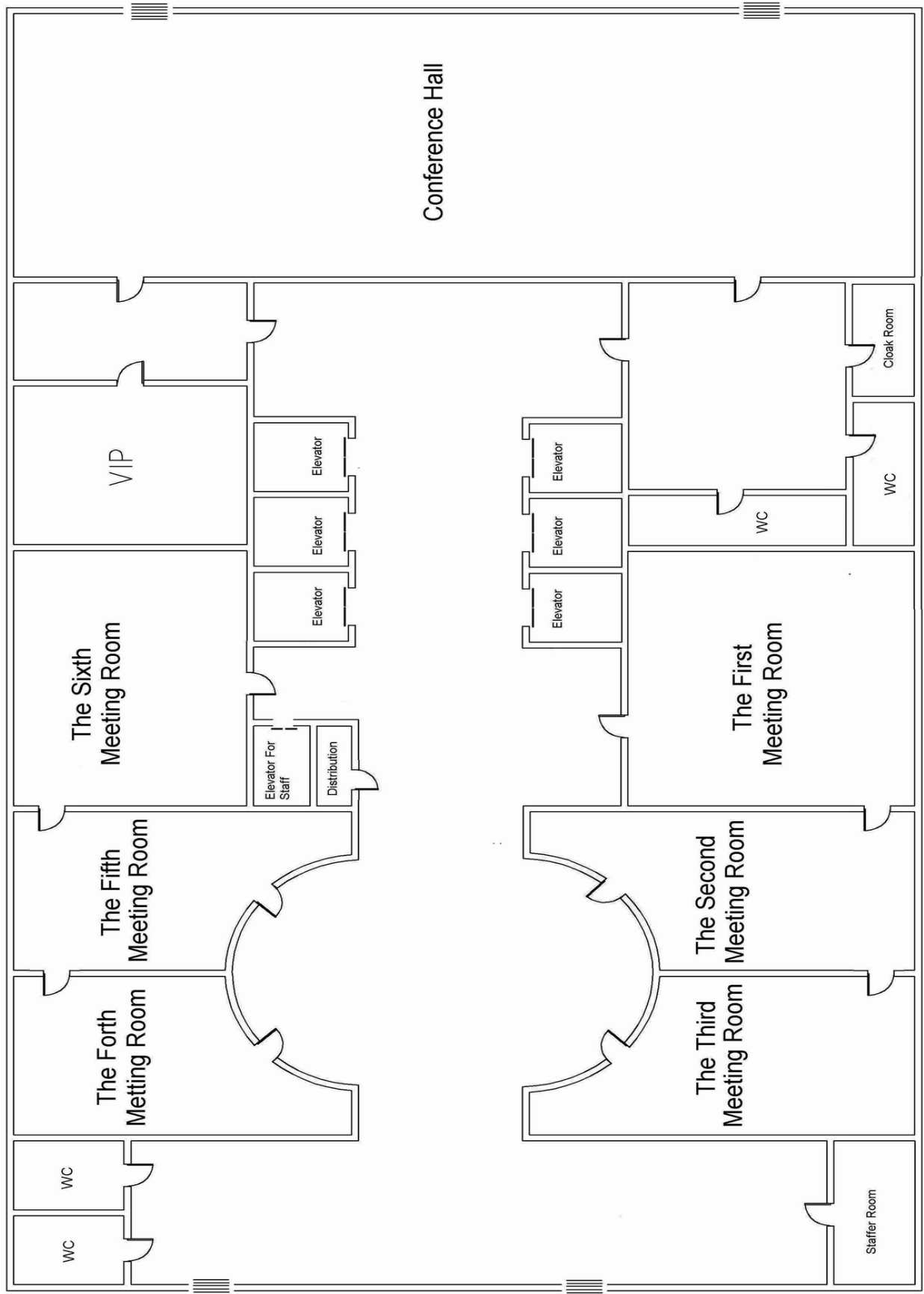Martin Frank, *University of Southern California, USA*
Naoki Fukuta, *Shizuoka University, Japan*

Fabien L. Gandon, *INRIA Sophia Antipolis, France*
Paolo Giorgini, *University of Trento, Italy*
Marco Gori, *University Siena, Italy*
Mohandsaid Hacid, *University Claude Bernard Lyon 1, France*
Howard J. Hamilton, *University of Regina, Canada*
Nicola Henze, *University of Hannover, Germany*
Herman ter Horst, *Philips Research, The Netherlands*
Andreas Hotho, *University Karlsruhe, Germany*
Jane Hsu, *National Taiwan University, Taiwan*
Xiaohua Hu, *Drexel University, USA*
Xiangji Huang, *York University, Canada*
Joshua Zhexue Huang, *University of Hong Kong, HK*
Fabrice Issac, *Universite Paris 13, France*
Noriaki Izumi, *National Institute of AIST, Japan*
Janusz Kacprzyk, *Polish Academy of Sciences, Poland*
Dimitrios Kalles, *SA & Hellenic Open University, Greece*
Vipul Kashyap, *National Library of Medicine, USA*
Samuel Kaski, *University of Helsinki, Finland*
Atanas Kiryakov, *Ontotext Lab, Sirma, Bulgaria*
Yasuhiko Kitamura, *Kwansei Gakuin University, Japan*
Michael Koch, *Technische Universitaet Muenchen, Germany*
Manuel Kolp, *Catholic University of Louvain, Belgium*
Donald H. Kraft, *Louisiana State University, USA*
Vipin Kumar, *University of Minnesota, USA*
Raymond Y.K. Lau, *Queensland University of Technology, Australia*
Alain Leger, *France Telecom R&D, France*
Yuefeng Li, *Queensland University of Technology, Australia*
Xiaoming Li, *Peking University, China*
Xuelong Li, *University of Ulster, UK*
Juanzi Li, *Tsinghua University, China*
Chun-Hung Li, *Hong Kong Baptist University, HK*
Chunnian Liu, *Beijing University of Technology, China*
Chaolin Liu, *National Chengchi University, Taiwan*
Bing Liu, *University of Illinois at Chicago, USA*
Jie Lu, *University of Technology Sydney, Australia*
Rainer Malaka, *European Media Laboratory, Germany*
Massimo Marchiori, *W3C/MIT and University of Venice, USA*
Naohiro Matsumura, *Osaka University, Japan*
Mitsunori Matsushita, *NTT Corporation, Japan*
Robert Meersman, *Vrije University Brussels, Belgium*
Sergey Melnik, *Microsoft Research, USA*
Ernestina Menasalvas, *Universidad Politecnica de Madrid, Spain*
Paolo Merialdo, *Universita' Roma Tre, Italy*
Eva Millan, *University of Malaga, Spain*
Luc Moreau, *University of Southampton, UK*
Boris Motik, *University Karlsruhe, Germany*
Maurice David Mulvenna, *University of Ulster, UK*
C. A. Murthy, *Indian Statistical Institute, India*
Keiichi Nakata, *International University in Germany, Germany*
Olfa Nasraoui, *University of Memphis, USA*
Michael Kwokpo Ng, *University of Hong Kong, HK*
Jianyun Nie, *University of Montreal, Canada*
Masayuki Numao, *Osaka University, Japan*
Yukio Ohsawa, *University of Tsukuba, Japan*
Ichiro Osawa, *National Institute of Advanced Industrial Science and Technology, Japan*

Terry R. Payne, *University of Southamption, UK*
Loris Penserini, *ITC-irst, Italy*
Mohamed Quafafou, *Institute of Advanced Application of the Internet, France*
Maarten de Rijke *University of Amsterdam,The Netherlands*
Shigeaki Sakurai, *Toshiba Corporation, Japan*
Garlatti Serge, *GET - ENST Bretagne, Technopole Brest Iroise, France*
Timothy K. Shih, *Tamkang University, Taiwan*
Milan Simunek, *University of Economics Prague, Czech Republic*
Michael Sintek, *German Research Center for Artificial Intelligence, Germany*
Arul Siromoney, *Anna University, India*
Carlo Strapparava, *ITC-irst, Italy*
Heiner Stuckenschmidt, *Vrije Universiteit Amsterdam, The Netherlands*
Gerd Stumme, *University of Kassel, Germany*
Zhong Su, *IBM China Research Lab., China*
Einoshin Suzuki, *Yokohama National University, Japan*
Yasufumi Takama, *Tokyo Metropolitan Institute of Technology, Japan*
Atsuhiro Takasu, *National Institute of Informatics, Japan*
Pangning Tan, *Michigan State University, USA*
Pierre Tchounikine, *LIUM, Universite du Mans, France*
Andrew Tomkins, *IBM Almaden Research Centre, USA*
Shusaku Tsumoto, *Shimane University, Japan*
Maria Vargas-Vera, *Open University, UK*
Pierangelo Veltri, *University of Catanzaro, Italy*
Jose M. Vidal, *University of South Carolina, USA*
Maurizio Vincini, *Universita' di Modena e Reggio Emilia, Italy*
Raphael Volz, *Universitaet Karlsruhe, Germany*
Gottfried Vossen, *University of Muenster, Germany*
Lipo Wang, *Nanyang Technological University, Singapore*
James Wang, *Clemson University, USA*
Fang Wang, *British Telecom, UK*
Takashi Washio, *Osaka University, Japan*
Jirong Wen, *Microsoft Research Asia, China*
Sungshun Weng, *Fu Jen University, Taiwan*
Graham J Williams, *CSIRO Australia, Australia*
Andreas Wombacher, *Integrated Publication and Information Systems Institute, Germany*
Zonghuan Wu, *University of Louisiana at Lafayette, USA*
Seiji Yamada, *National Institute of Informatics, Japan*
Kun Yang, *University of Essex, UK*
Yoneo Yano, *Tokushima University, Japan*
Jingtao Yao, *University of Regina, Canada*
Tetsuya Yoshida, *Hokkaido University, Japan*
Yanqing Zhang, *Georgia State University, USA*
Xiaolong Zhang, *Wuhan University of Science and Technology, China*
Aoying Zhou, *Fudan University, China*
Hai Zhuge, *Chinese Academy of Sciences, China*
Wojciech Ziarko, *University of Regina, Canada*

IAT'04 Program Committee Members
Elisabeth Andre, *University Augsburg, Germany*
I. Budak Arpinar, *University of Georgia, USA*
K. Suzanne Barber, *the University of Texas at Austin, USA*
Michael Wayne Barley, *University of Auckland, New Zealand*
Olivier Boissier, *Ecole Nationale Superieure des Mines de Saint-Etienne, France*
Paolo Bresciani, *ITC-irst, Italy*
Scott Buffett, *National Research Council, Canada*

Bernard Burg, *Hewlett Packard Laboratories, USA*
Hans-Dieter Burkhard, *Humboldt University Berlin, Germany*
Brahim Chaib-draa, *Laval University, Canada*
Zheng Chen, *Microsoft Research Asia, China*
Helder Coelho, *University of Lisbon, Portugal*
Massimo Cossentino, *ICAR-CNR, Italy*
Wei Dai, *Victoria University, Australia*
Yves Demazeau, *CNRS, Laboratory LEIBNIZ-IMAG, France*
Joerg Denzinger, *University of Calgary, Canada*
Frank Dignum, *Utrecht University, The Netherlands*
Tharam Dillon, *Faculty of Information Technology, Australia*
Alexis Drogoul, *LIP6 - University Paris 6, France*
Barbara Dunin-Keplicz, *Warsaw University, Poland*
Edmund H. Durfee, *University of Michigan, USA*
Boi Faltings, *Swiss Federal Institute of Technolgy, Switzerland*
Xiaocong Fan, *the Pennsylvania State University, US*
Tim Finin, *University of Maryland, Baltimore County, USA*
Gerhard Friedrich, *University Klagenfurt, Austria*
Adam Maria Gadomski, *Italian National Research Agency ENEA, Italy*
Joseph A. Giampapa, *Carnegie Mellon University, USA*
Maria Gini, *University of Minnesota, USA*
Fausto Giunchiglia, *University of Trento, Italy*
Vladimir Gorodetsky, *the Russian Academy of Sciences, Russia*
Siegfried Handschuh, *University of Karlsruhe, Germany*
Heikki Helin, *TeliaSonera Finland, Finland*
Wiebe van der Hoek, *University of Liverpool, UK*
Vasant Honavar, *Iowa State University, USA*
Michael D. Howard, *HRL Laboratories, LLC, USA*
Chun-Nan Hsu, *Institute of Information Science, Academia Sinica, Taiwan*
Michael N. Huhns, *University of South Carolina, USA*
Xiaolong Jin, *Hong Kong Baptist University, HK*
Stefan J. Johansson, *Blekinge Institute of Technology, Sweden*
W. Lewis Johnson, *USC/Information Sciences Institute, USA*
Catholijn M. Jonker, *Vrije Universiteit Amsterdam, The Netherlands*
Anthony Karageorgos, *University of Thessaly, Greece*
Jeffrey O. Kephart, *IBM Research, USA*
Larry Kerschberg, *George Mason University, USA*
Monalis Koubarakis, *Technical University of Crete, Greece*
Daniel Kudenko, *University of York, UK*
Kazuhiro Kuwabara, *ATR, Japan*
Jaeho Lee, *University of Seoul, Korea*
Jimmy Lee, *the Chinese University of Hong Kong, HK*
Victor Lesser, *University of Massachusetts, USA*
Ioan Alfred Letia, *Technical University of Cluj-Napoca, Romania*
Tianyi Li, *Guangzhou E-DM Technology Co., Ltd., China*
Churn-Jung Liau, *Academia Sinica, Taiwan*
Ronaldo Menezes, *Florida Institute of Technology, USA*

Pragnesh Jay Modi, *Carnegie Mellon University, USA*
Alberto Montresor, *University of Bologna, Italy*
Haralambos Mouratidis, *University of East London, UK*
Joerg P. Mueller, *Siemens AG, Germany*
Tracy Mullen, *Pennsylvania State University, USA*
Filippo Neri, *University of Piemonte Orientale, Italy*
Wee Keong Ng, *Nanyang Technological University, Singapore*
Timothy J. Norman, *University of Aberdeen, UK*
Eugenio Oliveira, *University of Porto, Portugal*
Andrea Omicini, *Universita di Bologna a Cesena, Italy*
Tuncer Oren, *University of Ottawa, Canada*
Luigi Palopoli, *Universita della Calabria, Italy*
Massimo Paolucci, *Carnegie Mellon University, USA*
Sun Park, *Rutgers Business School, USA*
Simon Parsons, *Brooklyn College, USA*
H. Van Dyke Parunak, *Altarum Institute, USA*
Paolo Petta, *Austrian Research Institute for Artificial Intelligence, Austria*
Alun Preece, *University of Aberdeen, UK*
Omer F. Rana, *Cardiff University, UK*
Zbigniew W. Ras, *University of North Carolina, USA*
Michael Rovatsos, *Technical University of Munich, Germany*
Eugene Santos, *University of Connecticut, USA*
Heiko Schuldt, *UMIT Innsbruck, Austria*
Zhongzhi Shi, *Chinese Academy of Sciences, China*
Jaime Simao Sichman, *University of Sao Paulo, Brazil*
Kwang M. Sim, *Chinese University of Hong Kong, HK*
Andrzej Skowron, *Warsaw University, Poland*
Pradip K Srimani, *Clemson University, USA*
Steffen Staab, *University of Karlsruhe & Ontoprise GmbH, Germany*
Leon Sterling, *University of Melbourne, Australia*
Niranjan Suri, *University of West Florida, USA*
Tieniu Tan, *Institute of Automation, Chinese Academy of Sciences, China*
Huaglory Tianfield, *Glasgow Caledonian University, UK*
Robert Tolksdorf, *Free University Berlin, Germany*
Kwok Ching Tsui, *Hong Kong Baptist University, HK*
Rainer Unland, *University of Duisburg-Essen, Germany*
Richard Wallace, *University College Cork, Ireland*
Hans Weigand, *Tilburg University, The Netherlands*
Kay C. Wiese, *Simon Fraser University, Canada*
Jinglong Wu, *Kagawa University, Japan*
Zhaohui Wu, *Zhejiang University, China*
Bin Yu, *Carnegie Mellon University, USA*
Eric Yu, *University of Toronto, Canada*
Jeffrey Xu Yu, *the Chinese University of Hong Kong, HK*
Wei Zhang, *the Boeing Company, USA*
Zili Zhang, *Deakin University, Australia*

Program at a Glance

September 20, Monday	
WI-IAT 2004 Tutorials **9:00 - 19:00**	
Time	**Sessions**
8:30 - 9:00	Workshop and Tutorial On-Site Registration 18F
9:00 - 12:00	Tutorial (1) 18F, Conference Hall **Normative Multiagent Ststems: An Introduction to Social Theory for MAS Researchers** By Guido Boella, Torino University, Italy Harko Verhagen, Stockholm University, Sweden
12:00 – 13:00	Lunch Box 2F, Banquet Hall
13:00 - 16:00	Tutorial (2) 18F, Conference Hall **Introduction to Wireless Intelligence** by Qiang Yang, Hong Kong University of Science and Technology, China
16:00 - 19:00	Tutorial (3) 18F, Conference Hall **Agent-oriented Software Engineering** by Leon Sterling and Thomas Juan, University of Melbourne, Australia

WI-IAT 2004 Workshops 9:00 - 18:00			
Venue — **Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**	**Meeting Room 6**
9:00 – 12:00 Workshop (1) **The 2nd International Workshop on Knowledge Grid and Grid Intelligence**	Workshop (2) **The 2nd International Workshop on Web-based Support Systems**	Workshop (3) **The 1st International Workshop on Semantic Web Mining and Reasoning**	Workshop (4) **International Workshop on Advanced Technologies for e-Learning and e-Science**
12:00 – 13:00 Lunch Box			2F, Banquet Hall
13:00 - 18:00 Workshop (1) **The 2nd International Workshop on Knowledge Grid and Grid Intelligence(Cont.)**	Workshop (2) **The 2nd International Workshop on Web-based Support Systems(Cont.)**	Workshop (6) **The 2nd International Workshop on Collaboration Agents: Autonomous Agents for Collaborative Environments**	Workshop (4) **International Workshop on Advanced Technologies for e-Learning and e-Science(Cont.)**

Venue	**Meeting Room 3**	**Meeting Room 5**	
9:00 - 12:00	Workshop (5) **International Workshop on Scientific Applications of Grid Computing**	Workshop (7) **International Workshop on Reputation in Agent Societies**	
12:00 – 13:00	Lunch Box		2F, Banquet Hall
16:00 – 18:00	Conference On-Site Registration		18F

September 21, Tuesday			
Time	**Sessions**		
8:00 - 8:45	Conference On-Site Registration 18F		
8:45 - 9:00	**Opening Address** (Chair: Chunnian Liu) 18F, Conference Hall Welcome from Conference Chairs: Jiming Liu and Nick Cercone Program Introduction: Ning Zhong		
09:00-09:50	Keynote Talk (Chair: Nick Cercone) **The Web - Early Visions, Present Reality, The Grander Future** 18F, Conference Hall Prof. John McCarthy		
09:50-10:40	Invited Talk (1) (Chair: Jeffrey Bradshaw) **Scaling up Multi-Agent Systems through Organizational Structuring** 18F, Conference Hall Prof. Victor Lesser		
10:40-11:00	Coffee Break		
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
11:00-12:30 (90)	Session 1A (WI) (Chair: Soe-Tsyr Yuan) **World Wide Wisdom Web**	Session 1B (WI) (Chair: Joongmin Choi) **Social Networks and Social Intelligence (I)**	Session 1C (IAT) (Chair: María S. Pérez) **Autonomy-Oriented Computing (I)**	Session 1D (IAT) (Chair: Mario Paolucci) **Agent Systems Modeling and Methodology (I)**
12:30-13:30	Conference Lunch 2F, Banquet Hall			
13:30-15:30 (120)	Session 2A (IAT) (Chair: Yiu-Ming Cheung) **Agent Engineering**	Session 2B (WI) (Chair: Toshiko Wakaki) **Web Support Systems and e-Technology**	Session 2C (WI) (Chair: Xindong Wu) **Web Mining and Farming (I)**	Session 2D (14:30-17:30) (Chair: Jiming Liu) **WIC Research Centers Working Workshop**
15:30-15:50	Coffee Break			
15:50-17:30 (100)	Session 3A (IAT) (Chair: Marius Silaghi) **Distributed Problem Solving**	Session 3B (IAT) (Chair: James Wang) **Autonomous Knowledge and Information Agents (I)**	Session 3C (WI) (Chair: Cory Butz) **Web Information Filtering and Retrieval**	
17:30-19:00	**Industry Track and Demo Track** (Chairs: Qiang Yang and Wei-Ying Ma) 3F, Sunshine Hall			
19:00-21:00	**Welcome Reception** (Chair: Chunnian Liu) 3F, Sunshine Hall Welcome to Beijing (Boyuan Fan, Vice-Mayor of Beijing and President of Beijing University of Technology)			

September 22, Wednesday			
Time	**Sessions**		
08:00 – 8:30	Conference On-Site Registration 18F		
08:30-09:20	Invited Talk (2) (Chair: Yiyu Yao) **Incentive-Compatible Social Choice**, Prof. Boi B. Faltings 18F, Conference Hall		
09:20-10:10	Invited Talk (3) (Chair: Sankar K. Pal) **Applications of Intelligent Agent Technology to The Grid**, Prof. Carl Kesselman 18F, Conference Hall		
10:10-10:30	Coffee Break		
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
10:30-12:30 (120)	Session 4A (WI-IAT) (Chair: Hai Zhuge) **Knowledge Grids and Grid Intelligence**	Session 4B (WI-IAT) (Chair: Yiyu Yao) **Web Services**	Session 4C (IAT) (Chair: Ali Ghorbani) **Autonomy-Oriented Computing (II)**	Session 4D (IAT) (Chair: Stephen Marsh) **Agent Systems Modeling and Methodology (II)**
12:30-13:30	Conference Lunch 2F, Banquet Hall		
13:30-14:30 (60)	Session 5A (WI) (Chair: Jingtao Yao) **Web Farming and Adaptation**	Session 5B (WI) (Chair: Gerd Wagner) **Semantics Based Search and Information Retrieval**	Session 5C (IAT) (Chair: Xiaolong Jin) **Autonomous Knowledge and Information Agents (II)**	Session 5D (IAT) (Chair: Yuefeng Li) **Probabilistic Reasoning and Adaptive Planning**
14:30-16:00 (90)	Session 6A (WI) (Chair: Jingtao Yao) **Information Extraction and Classification**	Session 6B (WI) (Chair: Gerd Wagner) **Methodologies for the Semantic Web**	Session 6C (IAT) (Chair: Xiaolong Jin) **Autonomous Knowledge and Information Agents (III)**	Session 6D (IAT) (Chair: Yuefeng Li) **Agent Systems Modeling and Methodology (III)**
16:00-18:00	**Short City Tour** (visiting Tiananmen Square)		
18:00-20:00	**Banquet** (at the Qunjude Golden Hall of Beijing Hepingmen Quanjude Roast Duck Restaurant) Best Papers Award and Best Demo Award Ceremony Introducing WI-IAT'05 in France		

September 23, Thursday			
Time	**Sessions**		
08:30-09:20	Invited Talk (4) (Chair: Henry Tirri) **Intelligent Workstation Agents and Unstructured Workstation Data** 18F, Conference Hall Prof. Tom M. Mitchell		
09:20-10:10	Invited Talk (5) (Chair: Lizhu Zhou) **Data Mining: Artificial Intelligence in Data Analysis**, Prof. Xindong Wu 18F, Conference Hall		
10:10-10:30	Coffee Break		
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
10:30-12:30 (120)	Session 7A (WI) (Chair: Xiaohua Hu) **Web Mining and Farming (II)**	Session 7B (WI) (Chair: William Cheung) **Social Networks and Social Intelligence (II)**	Session 7C (IAT) (Chair: Boi B. Faltings) **Autonomy-Oriented Computing (III)**	Session 7D (IAT) (Chair: Chun-Hung Li) **Agent Systems Modeling and Methodology (IV)**
12:30-13:30	Conference Lunch 2F, Banquet Hall			
13:30-15:30 (120)	Session 8A (WI) (Chair: Sankar K. Pal) **Web Mining and Farming (III)**	Session 8B (WI) (Chair: Tomohiro Takagi) **Web Agents and Retrieval**	Session 8C (WI) (Chair: Sonia Bergamaschi) **Intelligent Web Systems**	Session 8D (IAT) (Chair: Pawan Lingras) **Autonomy-Oriented Computing (IV)**
15:30-15:50	Coffee Break			
15:50-18:00 (130)	Session 9A (WI) (Chair: Raymond Yiu Keung Lau) **Intelligent E-Technology**	Session 9B (WI) (Chair: Vijay Raghavan) **Semantics and Ontology Engineering**	Session 9C (WI) (Chair: Pilar Herrero) **Web Mining and Farming (IV)**	Session 9D (IAT) (Chair: Yuefeng Li) **Agent Systems Modeling and Methodology (V)**
19:00-20:30	**Visiting the Campus of Beijing University of Technology**			

Time	**September 24, Friday**
7:30 -18:00	**A Full-day Post-conference Tour** **(visiting The Great Wall and The Ming Tombs)**

Program

Note: A regular paper is denoted by a '¨' symbol, and a short paper is denoted by a '•' symbol. Each regular paper is allocated 20 minutes, and a short paper is allocated 10 minutes.

September 21, Tuesday				
Time	**Sessions**			
8:00 - 8:45	Conference On-Site Registration			18F
8:45 - 9:00	**Opening Address** (Chair: Chunnian Liu) 18F, Conference Hall Welcome from Conference Chairs: Jiming Liu and Nick Cercone Program Introduction: Ning Zhong			
09:00-09:50	Keynote Talk (Chair: Nick Cercone) **The Web - Early Visions, Present Reality, The Grander Future** 18F, Conference Hall Prof. John McCarthy			
09:50-10:40	Invited Talk (1) (Chair: Jeffrey Bradshaw) **Scaling up Multi-Agent Systems through Organizational Structuring** 18F, Conference Hall Prof. Victor Lesser			
10:40-11:00	Coffee Break			
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
11:00-12:30 (90)	Session 1A (WI) (Chair: Soe-Tsyr Yuan) *World Wide Wisdom Web*	Session 1B (WI) (Chair: Joongmin Choi) *Social Networks and Social Intelligence (I)*	Session 1C (IAT) (Chair: María S. Pérez) *Autonomy-Oriented Computing (I)*	Session 1D (IAT) (Chair: Mario Paolucci) *Agent Systems Modeling and Methodology (I)*
	Regular: ¨ *A Web-Based Political Exchange for Election Outcome Predictions* S.-C. Wang, C.-Y. Yu, K.-P. Liu, and S.-P. Li ¨ *Fusing Reasoning Services with Formal Concept Analysis* B. Hu ¨ *Towards a People's Web: Metalog* M. Marchiori	**Regular:** ¨ *Logic Programming for Context-Aware Pervasive Computing: Language Support, Characterizing Situations, and Integration with the Web* S. W. Loke ¨ *Combining Topic Models and Social Networks for Chat Data Mining* V. H. Tuulos and H. Tirri ¨ *Social Networks and the Semantic Web* P. Mika	**Regular:** ¨ *A Novel Multiobjective Particle Swarm Optimization for Buoys-Arrangement Design* Y. Zhang and S. Huang ¨ *A Time Stamp Control Strategy for CBR Based Reactive Navigation in Dynamic Environments with Priorities* C. Urdiales, E. J. Perez, and F. Sandoval ¨ *The Interactive Simulation Environments of OAIR* Q. Zhang, M. Zhu, B. Gui, and S. Xu	**Regular:** ¨ *Meta-Level Reasoning in Deliberative Agents* A. Raja and V. Lesser ¨ *An Integral Cycle for Building Feasible Multi-Agent Plans* F. Marc, I. Degirmenciyan-Cartault, and A. El Fallah-Seghrouchni ¨ *Narrative Structures for Multi-Agent Interaction* M. Purvis

11

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short: ● *XML-Based Meta-Retrieval of Networked Data Sources* L. Xue, T. Guan, and B. Feng ● *Building a Misinformation Ontology* L. Zhou and D. Zhang ● *Knowledge Representation and Inductive Learning with XML* X. Wu	**Short:** ●*Help a Teacher in the Conception of a Course by Using Semantic Information* M. Sala, P. Pompidor, D. Herin, and G. Isoird ●*Using the Intelligent Agent on the Telecom Electronic Commerce Website* T.-H. Chou, C.-C. Chien, and T.-Y. Yeh ●*Examining Table Variations on Small Screen Devices* R. Zhang, C. Watters, and J. Duffy	**Short:** ●*Agent Based Simulation of Information Diffusion in a Virtual Market Place* F. Neri ●*Multi-Agent Based Softswitch* X. Gou, W. Jin, and D. Zhao ●*Holonic Probabilistic Agent Merging Algorithm* B. P. Stahmer and A. Schwaiger	**Short:** ● *A New Spring Net Approach to Distributed Problem Solving in Multi-Agent Systems* X. Feng and D. Shuai ●*Agent Based Genetic Algorithm Employing Financial Technical Analysis for Making Trading Decisions Using Historical Equity Market Data* C. Schoreels, B. Logan, and J. Garibaldi ● *Using Event Streams for Fault Management in MAS* P. Xu and R. Deters
12:30-13:30	Conference Lunch			2F, Banquet Hall
13:30-15:30 (120)	Session 2A (IAT) (Chair: Yiu-Ming Cheung) ***Agent Engineering***	Session 2B (WI) (Chair: Toshiko Wakaki) ***Web Support Systems and e-Technology***	Session 2C (WI) (Chair: Xindong Wu) ***Web Mining and Farming (I)***	Session 2D (14:30-17:30) (Chair: Jiming Liu) ***WIC Research Centers Working Workshop***
	Regular: ¨ *Agent Technology in Supply Chains and Networks* J. van Hillegersberg, H. Moonen, T. Verduijn, and J. Becker ¨*Evolutionary Virtual Agent* J.-C. Heudin ¨*Situation Awareness in Intelligent Agents: Foundations for a Theory of Proactive Agent Behavior* R. So and L. Sonenberg ¨*Separating Domain and Coordination in Multi-Agent Organizational Design and Instantiation* M. Sims, D. Corkill, and V. Lesser	**Regular:** ¨*Eliciting Truthful Feedback for Binary Reputation Mechanisms* R. Jurca and B. Faltings ¨*Web-Based Knowledge Acquisition to Impute Missing Values for Classification* N. Tang and V. R. Vemuri ¨*A Web-Based Intelligent Tutoring System for Computer Programming* C. J. Butz, S. Hua, and R. B. Maguire ¨*Defending Against Flash Crowds and Malicious Traffic Attacks with an Auction-Based Method* Z. Tian, B. Fang, and X. Yun	**Regular:** ¨*An Online Recommender System for LargeWeb Sites* R. Baraglia and Fabrizio Silvestri ¨ *GE-CKO: A Method to Optimize Composite Kernels for Web Page Classification* J.-T. Sun, B.-Y. Zhang, Z. Chen, Y.-C. Lu, C.-Y. Shi, and W.-Y. Ma ¨ *Semantic Feature Selection Using WordNet* S. Chua and N. Kulathuramaiyer ¨ *A Fast Tree Pattern Matching Algorithm for XML Query* J. T. Yao and M. Zhang	Australia Research Centre Beijing Research Centre Canada Research Centre France Research Centre Hong Kong Research Centre India Research Centre Japan Research Centre Korea Research Centre Mexico Research Centre Poland Research Centre Spain Research Centre UK Research Centre

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short: • *User-Aware Videoconference Session Control Using Software Agents* J. A. Botia, P. Ruiz, and A. F. Gomez-Skarmeta •*Towards Radical Agent-Oriented Software Engineering Processes Based on AOR Modeling* G. Wagner and K. Taveter •*Evaluating Multiagent Systems: A Record/Replay Approach* M.-P. Huget and Y. Demazeau •*Agent Space Architecture for Search Engines* B. Choi and R. Dhawan	**Short:** ¨ *Type-2 Fuzzy Web Shopping Agents* M. Tang, Y.-Q. Zhang, and G. Zhang ¨*Rough Set Theory: Application in Electronic Commerce Data Mining* X. Wang, R. Xu, and W. Wang ¨ *Using Knowledge Awareness Support Learning Services Providing in e-Learning Environment* Y. Zheng, H. Ogata, and Y. Yano ¨*A Weighted Freshness Metric for Maintaining Search Engine Local Repository* J. Han, N. Cercone, and X. Hu	**Short:** • *Prototype Research of a Web-Based DSS Intelligent Agent over Data Warehouse* W. Yang, W. Zhu, Y. Liu, and G. Chen •*Temporal Cluster Migration Matrices for Web Usage Mining* P. Lingras, M. Hogo, and M. Snorek •*Text Adaptation for Mobile Digital Teletext* C. Peng and P. Vuorimaa •*A Fuzzy Classification Based on Feature Selection for Web Pages* M.-Y. Zhang and Z.-D. Lu	
15:30-15:50	Coffee Break			
15:50-17:30 (100)	Session 3A (IAT) (Chair: Marius Silaghi) ***Distributed Problem Solving***	Session 3B (IAT) (Chair: James Wang) ***Autonomous Knowledge and Information Agents (I)***	Session 3C (WI) (Chair: Cory Butz) ***Web Information Filtering and Retrieval***	
	Regular: ¨ *Cooperative Multiagent Systems for the Optimization of Urban Traffic* E. Bitting and A. A. Ghorbani ¨*Power and Dependence Relations in Groups of Agents* G. Boella, L. Sauro, and L. van der Torre ¨*Mechanism Design for Multi-Agent Meeting Scheduling, Including Time Preferences, Availability, and Value of Presence* E. Crawford and M. Veloso	**Regular:** ¨ *Persuasion Through Overheard Communication by Life-like Agents* S. V. Suzuki and S. Yamada ¨ Utilizing Fuzzy *OLAP Mining Towards Novel Approach to Multiagent Modular Reinforcement Learning* M. Kaya and R. Alhajj ¨ *Predicting Agent Tactics in Automated Negotiation* C. Hou ¨ *e-Game: A Generic Auction Platform Supporting Customizable Market Games* M. Fasli and M. Michalakopoulos	**Regular:** ¨ *TSSP: A Reinforcement Algorithm to Find Related Papers* S. Huang, G.-R. Xue, B.-Y. Zhang, Z. Chen, Y. Yu, and W.-Y. Ma ¨ *Probabilistic Model Estimation for Collaborative Filtering Based on Items Attributes* B. M. Kim and Q. Li ¨ *Multi-Dimensional Evaluation of Information Retrieval Results* X. Gao, S. Murugesan, and B. Lo ¨ *A Scalable Topic-Based Open Source Search Engine* W. Buntine, J. Lofstrom, J. Perkio, S. Perttu, V. Poroshin, T. Silander, H. Tirri, A. Tuominen, and V. Tuulos	

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short: ●*Speculative Computation with Deadline and Its Resource Negotiation Under Time Constraints* L. Wang and H. Huang ●*Stackelberg Game in VMI System with Sufficient Capacity Considering Wholesale and Retail Prices* Y. Yu, L. Liang, and Q. Guo ●*Aggregating Local Behaviors Based upon Lagrange Multiplier Method* Y. Tang, J. Liu, and X. Jin	**Short:** ●*A Negotiation Strategy Based on Uncompromising Degree* B. An, L. Tang, S. Li, and D. Cheng ●*Fulfilling or Violating Obligations in Normative Multiagent Systems* G. Boella and L. van der Torre	**Short:** ●*An Improved GreedyDual Cache Document Replacement Algorithm* K. Li and H. Shen ● *Popularity-Based Selective Markov Model* L. Shi, Z.-M. Gu, L. Wei, and Y. Shi	

17:30-19:00	**Industry Track and Demo Track** (Chairs: Qiang Yang and Wei-Ying Ma)	**3F, Sunshine Hall**
	•*MumbleSearch - Extraction of High Quality Web Information for SME* N. Baldini, M. Gori, and M. Maggini •*Clustering Web Surfers with Probabilistic Models in a Real Application* Y. Liu, X. Huang, A. An, and G. Promhouse •*Multiagent Technologies for Steel Production and Control* K. Fischer, S. Jacobi, C. Diehl, and C. Theis •*Towards Building Semantic Rich Model for Web Documents Using Domain Ontology* S. A. Noah, L. Zakaria, A. C. Alhadi, T. M. Sembok, and S. Saad •*MICE: Aggregating and Classifying Meta Search Results into Self-Customized Categories* S. S. Tan, K. H. Gan, E. K. Tang, S. L. Cheong, S. L. Chan, and W. Y. Foo •*Intelligent Remote Experimentation* M. J. Callaghan, M. El-Gueddari, J. Harkin, T. M. McGinnity, and L. P. Maguire •*TMS: Targeted Marketing System Based on Market Value Functions* J. Huang, N. Zhong, C. Liu, Y.Y. Yao, D.Qiu, and C. Ou •*Using Dynamic Multi-Level Workflows on Multi-Layer Grids for Developing e-Business Portals* J. Hu and N. Zhong •*ADAN: Adaptive Newspapers Based on Evolutionary Programming* A. Milani and S. Suriani •*Energizing Soccer Agents by Argumentation* T. Nisikata, T. Kimura, and H. Sawamura •*Bang 3: A Computational Multi-Agent System* R. Neruda, P. Krusina, P. Kudova, P. Rydvan, and G. Beuster •*Speech and Language Interfaces for Agent Systems* C. Kemke	**Demos from Research-Track** *Agent Services-Based Infrastructure for Online Assessment of Trading Strategies* L. B. Cao, J. Q. Wang, L. Lin, and C.Q. Zhang *OntoXPL: Intelligent Exploration of OWL Ontologies* V. Haarslev, Y. Lu, and N. Shiri *Type-based Composition of Information Services in Large Scale Environment* I. Constantinescu, B. Faltings, and W. Binder *Classifying Image Texture with Artificial Crawlers* D. Zhang and Y. Q. Chen *Meeting Scheduling Guaranteeing n/2-Privacy and Resistant to Statistical Analysis (Applicable to any DisCSP)* M. C. Silaghi *Grid-based Data Mining in Real-life Business Scenario* T. Ch. Li, T. Bollinger, N. Breuer, and H.-D. Wehle *I-SPY: Community Based Web Search* E. Balfe and B. Smyth *Intrinsic and Extrinsic Evaluation of a Thesaurus-Based Query Expansion Technique* L. A. S. Pizzato, P. Quaresma, and V. S. de Lima *SimMarket - Agent-based Supermarket Simulation* B. Stahmer, and A. Schwaiger *A Web-based Political Exchange for Election Outcome Predictions* S.-Ch. Wang, Ch.-Y. Yu, K.-P. Liu, and S.-P. Li *Using Topic Maps in an e-learning: the MEMORAe PROJECT* M.-H. Abel, D. Lenne, C. Moulin, and A. Benayache	
19:00-21:00	**Welcome Reception** (Chair: Chunnian Liu) Welcome to Beijing (Boyuan Fan, Vice-Mayor of Beijing and President of Beijing University of Technology)	**3F, Sunshine Hall**

September 22, Wednesday			
Time	**Sessions**		
08:00-09:00	Conference On-Site Registration 18F		
08:30-09:20	Invited Talk (2) (Chair: Yiyu Yao) **Incentive-Compatible Social Choice**, Prof. Boi B. Faltings 18F, Conference Hall		
09:20-10:10	Invited Talk (3) (Chair: Sankar K. Pal) **Applications of Intelligent Agent Technology to The Grid**, Prof. Carl Kesselman 18F, Conference Hall		
10:10-10:30	Coffee Break		
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
10:30-12:30 (120)	Session 4A (WI-IAT) (Chair: Hai Zhuge) *Knowledge Grids and Grid Intelligence*	Session 4B (WI-IAT) (Chair: Yiyu Yao) *Web Services*	Session 4C (IAT) (Chair: Ali Ghorbani) *Autonomy-Oriented Computing (II)*	Session 4D (IAT) (Chair: Stephen Marsh) *Agent Systems Modeling and Methodology (II)*
	Regular: ¨ *Empowering Resource Providers to Build the Semantic Grid* L. Chen, S. Cox, F. Tao, N. Shadbolt, C. Puleston, and C. Goble ¨ *Quantitative Agent Service Matching* X. Luan, Y. Peng, and T. Finin ¨ *Dynamic Resource Selection for Service Composition in the Grid* K. -W. Cheung, J. Liu, H. -H. Tsang, and K. -K. Wong	**Regular:** ¨ *Efficient Selection and Monitoring of QoS-Aware Web Services with the WS-QoS Framework* M. Tian, A. Gramm, H. Ritter, and J. Schiller ¨ *Type-Based Composition of Information Services in Large Scale Environments* I. Constantinescu, B. Faltings, and W. Binder ¨ *Building Web Information Extraction Tasks* B. Habegger and M. Quafafou ¨ *Knowledge on the Web: Making Web Services Knowledge-Aware* A. Cuzzocrea	**Regular:** ¨ *Improving Modeling of Other Agents Using Tentative Stereotypes and Compactification of Observations* J. Denzinger and J. Hamdan ¨ *A Novel Ant Clustering Algorithm Based on Cellular Automata* L. Chen, X. Xu, Y. Chen, and P. He ¨ *A Case Study of Organizational Effects in a Distributed Sensor Network* B. Horling, R. Mailler, and V. Lesser ¨ *Argumentation Based Modeling of Decision Aiding for Autonomous Agents* Y. Dimopoulos, P. Moraitis, and A. Tsoukias ¨ *Data-Driven Agent-Based Simulation of Commercial Barter Trade* P. Haddawy, K. Dhananaiyapergse, Y. Kaewpitakkun, and T. Bui	**Regular:** ¨ *CHQ: A Multi-Agent Reinforcement Learning Scheme for Partially Observable Markov Decision Processes* H. Osada and S. Fujita ¨ *Context-Centric Proactive Information Delivery* X. Fan, J. Yen, R. Wang, S. Sun, and R. A. Volz ¨ *Programming Mobile Intelligent Agents: An Operational Semantics* A. El Fallah-Seghrouchni and A. Suna ¨ *Socially-Based Design Meets Agent Capabilities* L. Penserini, M. Kolp, L. Spalazzi, and M. Panti ¨ *Run-Time Mission Evolution in Mobile Multiagent Systems* G. T. Jayaputera, A. Zaslavsky, and S. W. Loke

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short: ●*Description Mathematical Approach to Validation for Grid Service Matching Function* Q. Mei, C. Wang, and X. Mei ●*A Search Architecture for Grid Software Components* F. Silvestri, D. Puppin, D. Laforenza, and S. Orlando ●*Bucket-Based Query Rewriting with Disjunctive Data Sources* Q. Bai, J. Hong, M. F. McTear, and H. Wang ●*An Efficient Decentralized Grid Service Discovery Approach Based on Service Ontology* C. Zhu, Z. Liu, W. Zhang, W. Xiao, and J. Huang ●*Grid-based Data Mining in a Real-Life Business Scenario* T. Li, T. Bollinger, N. Breuer, and H.-D. Wehle ● *A Resource Discovery Model Based on Multi-Agent Technology in P2P System* D. Wang	**Short:** ●*Web Service Cooperation Ideology* S. Liu, J. Wei, Y. Ma, and Y. Liu ●*Querying and Updating a Context-Aware Service Directory in Mobile Environments* C. Doulkeridis and M. Vazirgiannis ●*Effective Interaction Principles for Online Product Search Environments* P. Pu, B. Faltings, and M. Torrens ●*Brokering Semantic Web Services via Intelligent Middleware Agents Within a Knowledge-Based Framework* R. Howard and L. Kerschberg		**Short:** ●*Restricted Alliance and Coalition Formation* V. Mashkov ●*A Practical Approach to Agent Migration Protocol* G. Autran and X. Li
12:30-13:30	Conference Lunch			2F, Banquet Hall

17

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
13:30-14:30 (60)	Session 5A (WI) (Chair: Jingtao Yao) ***Web Farming and Adaptation***	Session 5B (WI) (Chair: Gerd Wagner) ***Semantics Based Search and Information Retrieval***	Session 5C (IAT) (Chair: Xiaolong Jin) ***Autonomous Knowledge and Information Agents (II)***	Session 5D (IAT) (Chair: Yuefeng Li) ***Probabilistic Reasoning and Adaptive Planning***
	Regular: ¨*Matching and Retrieving Sequential Patterns Under Regression* H. Lei and V. Govindaraju ¨*NavOptim Coding: Supporting Website Navigation Optimisation Using Effort Minimisation* D. Lowe and X. Kong	**Regular:** ¨*An Approach for Step-by-Step Query Refinement in Ontology-Based Information Retrieval* N. Stojanovic, R. Studer, and L. Stojanovic ¨*An Ontology-Based Approach to Retrieve Digital Art Images* S. Jiang, T. Huang, and W. Gao	**Regular:** ¨*Intelligent Pedagogical Agents with Multiparty Interaction Support* Y. Liu and Y. S. Chee ¨*A Dynamically Formed Hierarchical Agent Organization for a Distributed Content Sharing System* H. Zhang and V. Lesser	**Regular:** ¨*Revising Markov Boundary for Multiagent Probabilistic Inference* X. An, Y. Xiang, and N. Cercone ¨*Hybrid BDI Agents with Improved Learning Capabilities for Adaptive Planning in a Container Terminal Application* P. Lokuge and D. Alahakoon
	Short: •*Simulating the Behaviour of Electronic MarketPlaces with an Agent-Based Approach* M. J. Viamonte, C. Ramos, F. Rodrigues, and J. C. Cardoso •*A Theoretical Framework and an Implementation Architecture for Self Adaptive Web Sites* A. Mikroyannidis and B. Theodoulidis	**Short:** •*Using DAML+OIL to Enhance Search Semantic* B. Liang, J. Tang, J. Li, and K. Wang •*A Logic-Based Approach for Query Refinement on the Semantic Web* N. Stojanovic	**Short:** •*Agents for Establishing Ad Hoc Cross-Organizational Teams* J. E. Just, M. R. Cornwell, and M. N. Huhns •*Natural Language Enabled Interface Agent* S. H. Rubin and W. Dai	**Short:** •Bayesian Learning in Bilateral Multi-Issue Negotiation and *Its Application in MAS-Based Electronic Commerce* J. Li and Y.-D. Cao ♦*Learning How to Plan and Instantiate a Plan in Multi-Agent Coalition Formation* X. Li and L.-K. Soh

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
14:30-16:00 (90)	Session 6A (WI) (Chair: Jingtao Yao) *Information Extraction and Classification*	Session 6B (WI) (Chair: Gerd Wagner) *Methodologies for the Semantic Web*	Session 6C (IAT) (Chair: Xiaolong Jin) *Autonomous Knowledge and Information Agents (III)*	Session 6D (IAT) (Chair: Yuefeng Li) *Agent Systems Modeling and Methodology (III)*
	Regular: ¨*Rough Set-Aided Feature Selection for Automatic Web-PageClassification* T. Wakaki, H. Itakura, and M. Tamura ¨*Ontology-Based Scalable and Portable Information Extraction System to Extract Biological Knowledge from Huge Collection of Biomedical Web Documents* X. Hu, T. Y. Lin, I.-Y. Song, X. Lin, I. Yoo, M. Lechner and M. Song ¨*Tree-Structured Template Generation for Web Pages* S.-L. Chuang and J. Y.-J. Hsu ¨*Extracting Precise Link Context Using NLP Parsing Technique* Q. Xu and W. Zuo **Short:** ●*Ontology-Based Structured Cosine Similarity in Speech Document Summarization* S.-T. Yuan and J. Sun	**Regular:** ¨*Enabling Context-Aware Agents to Understand Semantic Resources on the WWW and the Semantic Web* W. Huang and D. Webster **Short:** ●*A Metric Framework for Quantifying Semantic Reliability in Shared Ontology Environments* C. Linn ●*Using Two Ontologies to Index e-Learning Resources* M.-H.e Abel, D. Lenne, C. Moulin, and A. Benayache ●*Modeling and Implementation of Unified Semantic Web Platform* J. Xu, Q. Zhu, J.-Z. Li, P. Zhang, and K. Wang ●*OBSA: Ontology-Based Semantic Information Processing Architecture* J. Gu, H. Chen, L. Yang, and L. Zhang ●*Event Recognition on News Stories and Semi-Automatic Population of an Ontology* M. Vargas-Vera and D. Celjuska	**Regular:** ¨*A Default Extension to Distributed Description Logics* Y. Ma and J. Wei ¨*Specification and Verification of Multi-Agent Applications Using Temporal Z* A. Regayeg, A. H. Kacem, and M. Jmaiel ¨*Towards Genetically Optimised Reponsive Negotiation Agents* R. Y. K. Lau, M. Tang, and O. Wong **Short:** ●*Agent Services-Based Infrastructure for Online Assessment of Trading Strategies* L. Cao, J. Wang, L. Lin, and C. Zhang ●*Adding Flexibility to a Room Booking System Using Argumentation-Inspired Negotiations as Mediated by Mobile Agents* W. S. Cheah, S. W. Loke, S. Krishnaswamy, and S. Ling	**Regular:** ¨*A Novel Self-Configuration Mechanism for Heterogeneous P2P Networks* J. Z. Wang and M. A. Vanninen ¨*From Local Behaviors to Global Performance in a Multi-Agent System* B. Hu, J. Liu, and X. Jin ¨*Minority Game Strategies for Dynamic Multi-Agent Role Assignment* T. Wang, J. Liu, and X. Jin **Short:** ●*A Two-Level Framework for Coalition Formation via Optimization and Agent Negotiation* H. C. Lau and L. Zhang ●*An Adaptive Recommendation Trust Model in Multiagent System* W. Song, V. V. Phoha, and X. Xu ●*An Agent-Based Approach to Distributed Data and Information Fusion* G. Pavlin, M. Maris, and J. Nunnink
16:00-18:00	**Short City Tour** (visiting Tiananmen Square)			
18:00-20:00	**Banquet** (at the Qunjude Golden Hall of Beijing Hepingmen Quanjude Roast Duck Restaurant) Best Papers Award and Best Demo Award Ceremony Introducing WI-IAT'05 in France			

19

September 23, Thursday			
Time	**Sessions**		
08:30-09:20	Invited Talk (4)　(Chair: Henry Tirri)　**Intelligent Workstation Agents and Unstructured Workstation Data**　　　　　18F, Conference Hall Prof. Tom M. Mitchell		
09:20-10:10	Invited Talk (5)　(Chair: Lizhu Zhou)　**Data Mining: Artificial Intelligence in Data Analysis**　　　　　18F, Conference Hall Prof. Xindong Wu		
10:10-10:30	Coffee Break		
Venue	**Conference Hall**	**Meeting Room 1**	**Meeting Room 2**	**Meeting Room 4**
10:30-12:30 (120)	Session 7A (WI) (Chair: Xiaohua Hu) ***Web Mining and Farming (II)***	Session 7B (WI) (Chair: William Cheung) ***Social Networks and Social Intelligence (II)***	Session 7C (IAT) (Chair: Boi B. Faltings) ***Autonomy-Oriented Computing (III)***	Session7D (IAT) (Chair: Chun-Hung Li) ***Agent Systems Modeling and Methodology (IV)***
	Regular: ¨*Automatic Pattern-Taxonomy Extraction for Web Mining* S.-T. Wu, Y. Li, Y. Xu, B. Pham, and P. Chen ¨*Capturing Evolving Patterns for Ontology-Based Web Mining* Y. Li and N. Zhong ¨*Discovering Negotiation Knowledge for a Probabilistic Negotiation Web Service in e-Busines* R. Y. K. Lau and E. Valdal ¨*An Immune Network Approach for Web Document Clustering* X. Hang and H. Dai	**Regular:** ¨*Trust-Based Community Formation in Peer-to-Peer File Sharing Networks* Y. Wang and J. Vassileva ¨*MAMI: Mobile Agent Based System for Mobile Internet* M. A. Haq and M. Matsumoto	**Regular:** ¨*Self Improving Coordination in Multi Agent Filtering Framework* S. Albayrak and D. Milosevic ¨*Theoretical Analysis of the Multi-Agent Patrolling Problem* Y. Chevaleyre	**Regular:** ¨*Organization-Based Cooperative Coalition Formation* S. Abdallah and V. Lesser ¨*Countering Agent Security Vulnerabilities Using an Extended SENSE Schema* J. Page, A. Zaslavsky, and M. Indrawan ¨*Accounting for Social Order in Multi-Agent Systems: Preliminary Report* M. Fasli

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short:	**Short:**	**Short:**	**Short:**
	●*Content-Based TV Sports Video Retrieval Based on Audio-Visual Features and Text Information* H. Liu ●*Co-Training with a Single Natural Feature Set Applied to Email Classification* J. Chan, I. Koprinska, and J. Poon ●*Photo Time-Stamp Recognition Based on Particle Swarm Optimization* F. Bao, A. Li, and Z. Qin ●*NewsRec, a SVM-Driven Personal Recommendation System for News Websites* C. Bomhardt	●*Design of an Open and Secure Ubiquitous Computing System* W. Rao and W. Li ●*Discovery of User Communities from Web Audience Measurement Data* T. Murata ●*The Role of Technology in Interest-Based Communities: Interactivity, Immersion and Connectivity* K. Still, M. Isomursu, J. Still, and P. Isomursu ●*Distributed Architecture for Adaptive Intelligent Environments* M. J. Callaghan, M. El-Gueddari, J. Harkin, T. M. McGinnity, and L. P. Maguire ●*Supporting Web Collaboration for Cooperative Software Development* L. Wu and H. Sahraoui ●*On Mining Local Data Sources for Learning Global Cluster Models* C.-M. Lam, X.-F. Zhang, and K. -W. Cheung ●*Image Watermarking Capacity Analysis Using Neural Network* F. Zhang and H. Zhang	●*Agent Dynamic Cooperation Based Information Retrieval* K. Gao, Y. Wang, and Z. Wang ●*A New Agent-Oriented Development Methodology* J. Tian, R. Foley, and H. Tianfield ●*Traffic Jams: An Evolutionary Investigation* T.-D. Wang and C. Fyfe ●*Planning for Spatially Situated Agents* D. Devigne, P. Mathieu, and J.-C. Routier ●*HDACC: A Heuristic Density-Based Ant Colony Clustering Algorithm* Y.-F. Chen, C. A. Fattah, Y.-S. Liu, and G. Yan ●*Designing Stable Structures in a Multi-Agent Self-Assembly System* Y. Guo, G. Poulton, G. James, P. Valencia, V. Gerasimov, and J. Li	●*A Comparison of Team Evolution Operators for Co-Evolution* D. Qi and R. Sun ●*Analysis of Mobile Agents' Fault-Tolerant Behavior* W. Qu and H. Shen ●*Using Mobile Agents for Resource Sharing* A. Suna, G. Klein, and A. El Fallah-Seghrouchni ●*ATSpace: A Middle Agent to Support Application-Oriented Matchmaking and Brokering Services* M.-W. Jang, A. A. Momen, and G. Agha
12:30-13:30	Conference Lunch			2F, Banquet Hall

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
13:30-15:30 (120)	Session 8A (WI) (Chair: Sankar K. Pal) *Web Mining and Farming (III)*	Session 8B (WI) (Chair: Tomohiro Takagi) *Web Agents and Retrieval*	Session 8C (WI) (Chair: Sonia Bergamaschi) *Intelligent Web Systems*	Session 8D (IAT) (Chair: Pawan Lingras) *Autonomy-Oriented Computing (IV)*
	Regular: ¨ *Integration of Business Intelligence Based on Three-Level Ontology Services* L. Cao, C. Luo, D. Luo, and C. Zhang ¨ *An Efficient Mining and Clustering Algorithm for Interactive Walk-through Traversal Patterns* S.-S. Huang, T.-C. Kuo, and D. S.-M. Liu ¨ *Pseudo-Supervised Clustering for Text Documents* M. Maggini, L. Rigutini, and M. Turchi ¨ *Mining Online Deal Forums for Hot Deals* W.-T. Yih, P.-H. Chang, and W. Kim ¨ *Efficient Wrapper Reinduction from Dynamic Web Sources* R. Mohapatra, K. Rajaraman, and S. Y. Sung ¨ *Clustering High-Dimensional Data with Low-Order Neighbors* Y. Zhao, C. Zhang, and Y.-D. Shen	**Regular:** ¨ *Fuzzy Neural Agents for Online NBA Scouting* M. Atlas and Y. Q. Zhang ¨ *Anycast-Based Cooperative Proxy Caching: Preliminary Results* K. C. Tsui, J. Liu, and J. Shi	**Regular:** ¨ *An Empirical Study of Web Interface Design on Small Display Devices* M. Qiu, K. Zhang, and M. Huang ¨ *Management of Web Data Models Based on Graph Transformation* G. Song, K. Zhang, R. Wong, and J. Kong	**Short:** ●*Comparing Performance of Two Mobile Agent Platforms in Distributed Search* A. Mawlood-Yunis, A. Nayak, D. Nussbaum, and N. Santoro ●*Multi-Agent Systems: A Petri Net with Object Based Approach* W. Chainbi ●*Classifying Image Texture with Artificial Crawlers* D. Zhang and Y. Q. Chen ●*Adaptive Agent Architecture Inspired by Human Behavior* L. K. Wickramasinghe and L. D. Alahakoon ●*A Platform for Dynamic Organization of Agents in Agent-Based Systems* C. Li, Z. Zhang, and C. Zhang ●*Evaluating Reactive Scheduling Systems* J. Dorn ●*From PASSI to Agile PASSI: Tailoring a Design Process to Meet New Needs* A. Chella, M. Cossentino, L. Sabatucci, and V. Seidita ●*Solution to Agent Coalition Problem Using Improved Ant Colony Optimization Algorithm* N. Xia, J. Jiang, and Y. Hu

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
		Short: •*A Novel Middleware Based Web Database Model* S. Yu and W. Zhou •*Grid Service Agents for Real Time Traffic Synchronization* W. G. Li, M. V. P. Dib, and D. A. Cardoso •*Offer Group Generation and Delayed Processing in Multi-Issue Negotiation* N. Zhang, S. Zhang, L.Wang, J. Yang, and Z. Xu •*A Logical Framework of Knowledge Retrieval with Fuzziness* B.-C. Chen and J. Hsiang •*The Evolution of Link-Attributes for Pages and Its Implications on Web Crawling* T. Meng, H.-F. Yan, J.-M. Wang, and X. Li •*An Intelligent Query Expansion for Searching Related Text Information by Keywords* Q. Zhou and Z. Q. Zheng •*Query Mining for Community Based Web Search* E. Balfe and B. Smyth •*Applying Collaborative Filtering for an Efficient Document Search* S. Jung, J. Kim, and J. L. Herlocker	**Short:** •*Web-Based Context Aware Information Retrieval in Contact Centers* A. Thawani, S. Gopalan, and V. Sridhar •*Design of an Emotional Search in an Existing Product Platform www.stylepark.com* S. Baethies, C. Gaertner, S. Spanihel, and D. Tsatsas •*Task Allocating Among a Group of Agents* D.-S. Yang, Z. Liu, Y.-L. Lu, and W.-M. Zhang •*Local vs Global Policies and Centralized vs Decentralized Control in Virtual Communities of Agents* G. Boella and L. van der Torre •*Meeting Scheduling System Guaranteeing n/2-Privacy and Resistant to Statistical Analysis (Applicable to Any DisCSP) Deployed Using the Web* M. C. Silaghi •*Intelligent Streaming Video Data over the Web* J. R. Wang and N. Parameswaran •*Exploring Independent Trends in a Topic-Based Search Engine* J. Perkio, W. Buntine, and S. Perttu •*Focused Crawling by Learning HMM from User's Topic-Specific Browsing* H. Liu, E. Milios, and J. Janssen	
15:30-15:50	Coffee Break			

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
15:50-18:00 (130)	Session 9A (WI) (Chair: Raymond Yiu Keung Lau) **Intelligent E-Technology**	Session 9B (WI) (Chair: Vijay Raghavan) **Semantics and Ontology Engineering**	Session 9C (WI) (Chair: Pilar Herrero) **Web Mining and Farming (IV)**	Session 9D (IAT) (Chair: Yuefeng Li) **Agent Systems Modeling and Methodology (V)**
	Regular: ¨ *Compound Critiques for Conversational Recommender Systems* B. Smyth, L. McGinty, J. Reilly, and K. McCarthy ¨ *Bayesian Network Structure Learning and Its Application to Personalized Recommendation in a B2C Porta* J. Ji, C. Liu, J. Yan, and N. Zhong ¨ *An Access Control Model for Web Services in Business Process* P. Liu and Z. Chen	**Regular:** ¨ *Using Semantic Graphs in Clustering Process: Enhance Information Level* J.-S. Brunner and I. Berrien ¨ *TUCUXI: The Intelligent Hunter Agent for Concept Understanding and Lexical Chaining* R. Benassi, S. Bergamaschi, and M. Vincini ¨ *Improvement of Precision and Recall for Information Retrieval in a Narrow Domain: Reuse of Concepts by Formal Concept Analysis* W. C. Cho and D. Richards ¨ *Mining the Web to Create a Language Model for Mapping between English Names and Phrases and Japanese* G. Grefenstette, Y. Qu, and D. A. Evans	**Regular:** ¨ *Personal Documents Recommendation System Based on Data Mining Techniques* S.-M. Hsieh, S.-J. Huang, C.-C. Hsu, and H.-C. Chang ¨ *One Dynamic Pricing Strategy in Agent Economy Using Neural Network Based on Online Learning* D. Kong	**Regular:** ¨ *Economic Model of TAC SCM Game* D. Zhang and K. Zhao ¨ *Modeling Agent-Based Task Handling in a Peer-to-Peer Grid* X. Jin, J. Liu, and Z. Yang

Venue	Conference Hall	Meeting Room 1	Meeting Room 2	Meeting Room 4
	Short: ●*A Multi-Agent System's Approach to Communication Security in the Web* J. P. Pimentao, P. A. C. Sousa, P. Amaral, and A. Steiger-Garcao ●*Abbreviation Expansion in Schema Matching and Web Integration* L. Ratinov and E. Gudes J. Han, N. Cercone, and X. Hu ●*Improving Efficiency and Relevance Ranking in Information Retrieval* L. Dong and C. Watters ●*Normalization Design of XML Database Schema for Eliminating Redundant Schemas and Satisfying Lossless Join* Y. Wu	**Short:** ●*OntoXPL: Intelligent Exploration of OWL Ontologies* V. Haarslev, Y. Lu, and N. Shiri ●*The Abstract Syntax of RuleML - Towards a General Web Rule Language Framework* G. Wagner, G. Antoniou, S. Tabet, and H. Boley ●*Building Domain Ontology Based on Web Data and Generic Ontology* J. Yang, L. Wang, S. Zhang, X. Sui, N. Zhang, and Z. Xu ●*Understanding the Web Through Its Language* R. Basili, M. Vindigni, and F. M. Zanzotto ●*Using a Class Algebra Ontology to Define Conversions Between OWL/SQL/Java Beans* D. J. Buehrer and C.-Y. Wang	**Short:** ●*PEWeb: Product Extraction from the Web Based on Entropy Estimation* X. H. Phan, S. Horiguchi, and T. B. Ho ●*An Empirical Study of Feature Selection for Text Categorization Based on Term Weightage* C. H. Bong and Narayanan K. ●*Finding Related Pages Using the Link Structure of the WWW* P.-A. Chirita, D. Olmedilla, and W. Nejdl ●*Web Site Structure and Content Recommendations* J. Velasquez, H. Yasuda, and T. Aoki ●*Detecting and Partitioning of Data Objects in Complex Web Pages* S. Ye and T.-S. Chua ●*Concept Learning of Text Documents* J. An and Y.-P. P. Chen ●*Full-Coverage Web Prediction Based on Web Usage Mining and Site Topology* D. Oikonomopoulou, M. Rigou, S. Sirmakessis, and A. Tsakalidis ●*Context Generalization for Information Extraction from the Web* B. Habegger and M. Quafafou	**Short:** ●*On the Use of IP Multicast to Facilitate Group Communication Between Mobile Agents* S. W. Shah, P. Nixon, and R. I. Ferguson ●*A Study of Coordination Within a Road Traffic Environment* S. El Hadouaj and A. Drogoul ●*A Fuzzy Multi-Agent Bidding Model* O. Iglesias, R. A. Ribeiro, and J. R. Fonseca ●*Distributed Constraint Satisfaction and Optimization with Privacy Enforcement* M. C. Silaghi and D. Mitra ●*Institutions and Commitments in Open Multi-Agent Systems* M. De Oliveira, M. Purvis, S. Cranefield, and M. Nowostawski ●*Game Specification in Normative Multiagent System: The Trias Politica* G. Boella and L. van der Torre ●*Goal Oriented Modeling for Intelligent Software Agents* Z. Shen, C. Miao, X. Tao, and R. Gay ●*A Framework to Specify and Evaluate Coordination in MAS with Logic* X. Mao, J. Wang, and E. Yu ●*A Multi-Agent-Based Remote Maintenance Support and Management System* R. Yu, L. Ye, and C. Fu
19:00-20:30	**Visiting the Campus of Beijing University of Technology**			

Time	September 24, Friday
7:30 -18:00	**A Full-day Post-conference Tour** **(visiting The Great Wall and The Ming Tombs)**

Non-Program Committee Reviewers

WI'04

Takehito Abe
David Ahn
Anneleen Van Assche
Salima Benbernou
Djamal Benslimane
Ansgar Bernardi
Enrico Blanzieri
Paolo Busetta
Giacomo Cabri
Deng Cai
Mario Cannataro
Michel Chaudron
Wanxiang Che
Jie Chen
Bonaventura Coppola
Prasanna Desikan
Feng Ding
Juzhen Dong
Martin Dzbor
Sebastian Eichholz
Ludger van Elst
Levent Ertoz
Mehdi Essid
Jean-Claude Franchitti
Filippo Furfaro
Alfredo Garro
Peter Dolog
Enrico Hauer
Pilar Herrero
Kaoru Hiramatsu
Wai-Shing Ho

Jia Hu
Bo Hu
Jiajin Huang
Bodo Huesemann
Sebastien Iksal
Ivan Janciak
Mustafa Jarrar
Junzhong Ji
Valentin Jijkoun
Huidong Jin
JL Xu
Jun Gao
Hideaki Kanai
R Karthik
Michel Klein
Thomas Klement
Ananth Krishna
Yassine Lassoued
Alain Leger Christophe
Laurent
Richard Lawley
Aleksandar Lazarevic
Jens Lechtenboerger
Yuefeng Li
Peng Li
Luyi Li
Bangyong Liang
Yang Liu
Tao Liu
V Uma Maheswari
Andrea Malagoli

Marco Mamei
Snezhana Manoah
Oscar Marban
Francisco Martin-Recuerda
Motohiro Mase
Masafumi Matsuda
Kenji Matsuura
Laurent Mignet
Simon Miles
Hiroyuki Mitsuhara
Yasuo Miyoshi
Raul Morales
Mikihiko Mori
Haralambos Mouratidis
Anthony Mullen
Dheerendranath Mundluru
Zaiqing Nie
Takeshi Ohguro
Masayuki Okabe
Jaakko Peltonen
Christos Pierrakeas
Kai Puolamaki
David Raymond
Hideki Sakurada
Jarkko Salojarvi
Eerika Savia
Christoph Schmitz
Simon Sheu
Janne Sinkkonen
Ruihua Song
Peter Spyns

Jan Struyf
Martin Szomszor
Andrea Tagarelli
Koichi Taji
Julien Tane
Jie Tang
Dacheng Tao
Koichi Terai
Satoshi Togawa
Ioan Toma
Giuseppe Tradigo
Ping-Sing Tsai
Ganesan Velayathan
Jarkko Venna
Qian Wan
Peter Westerkamp
Hui Xiong
Tomohiro Yamaguchi
Yutaka Yanagisawa
Shaozhi Ye
Yuan Yuan
Ilya Zaihrayeu
Xiaofung Zhang
Pusheng Zhang
Ming Zhang
Yuting Zhao
Yanlin Zheng
Lei Zheng

Non-Program Committee Reviewers

IAT'04

Diana Francisca Adamatti
Sudhir Agarwal
Jaesuk Ahn
Muhammad Muazzam Ali
Fabrizio Angiulli
Tadashi Araragi
Frederick Asselin
Viswanath Avasarala
Molly Azami
Jisun Park
Suzanne Barber
Reinaldo Augusto da Costa Bianchi
Aleman-Meza Boanerges
Tibor Bosse
Juergen Branke
Maggie Breedy
Frank B.A Nscher
Paulo Andr Ni Lima de Castro
Cong Chen
Krzysztof Ciesielski
Gary Cleveland
John Mashford
Wei Dai
Jiangbo Dang
Agnieszka Dardzinska
Marcin Dziubinski
Paolo Donzelli

Regina Estkowski
Alexander Felfernig
Felix Fischer
Sergio Flesca
Jie Gao
Alfredo Garro
Anna Gomolinska
Nishit Gujral
Peter Haase
Basmah El Haddad
Chris Halaschek
Mark Hoogendoorn
Marc-Philippe Huget
GB Ianni
Dietmar Jannach
Bernhard Jung
Kaivan Kamali
Oleg Karsaev
Shanika Karunasekera
Jordan Kidney
Savas Konur
Igor Kotenko
Dung Lam
Tomasz Lasica
Julien Laumonier
Ho-fung Leung
Zhao Li
Wenyuan Li

Lin Liu
Seng Loke
Peter-Paul van Maanen
Giuseppe Manco
Xinjun Mao
John Mashford
Chris McCarthy
Dagmar Monett
Thierry Moyaux
Joerg Muller
Helmut Myritz
B. L. Narayan
Kam Wing NG
Luis Nunes
Daniel Oberle
S. Nibastien Paquet
Jisun Park
Adrian Pearce
Aleksander Pivk
A. Sharpanskij
V. Popova
Iyad Rahwan
Matteo Rebeschini
Patricia J Riddle
Ana Paula Rocha
Nicole Ronald
Luca Sabatucci
Bjoern Schnizler

Viviane Torres da Silva
Dominik Slezak
Bruce Spencer
Jaroslaw Stepaniuk
Markus Stumptner
Shuang Sun
Angelo Susi
Piotr Synak
Marcin Szczuka
Lenny Tang
Christoph Tempich
Herbert Tsang
Diemo Urbig
Marcelo Vanzin
Laurent Vercouter
Rui Wang
Haiqin Wang
Yucheng Wei
Khin Myo Win
Lai Xu
Qing Yang
Pinar Yolum
Cheng Yong
Yijun Yu
Jun Yuan
Markus Zanker
Hongyi Zhou

Co-Organized and In Cooperation With:

Beijing University of Technology

China Computer Federation (CCF)

Hong Kong Baptist University (HKBU)

Maebashi Institute of Technology

Tsinghua University

Corporate Sponsors:

Beijing University of Technology

Microsoft Research Asia

National Natural Science Foundation of China (NSFC)