

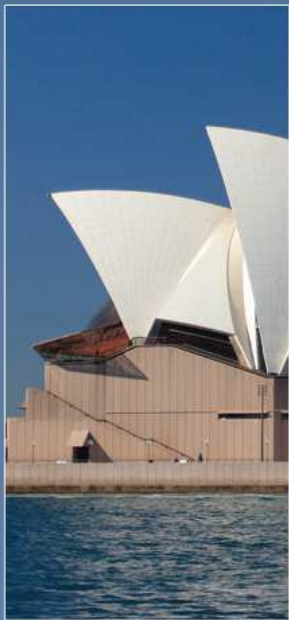


Final Program

The 2008 IEEE/WIC/ACM International Joint Conference on
Web Intelligence (WI'08) and Intelligent Agent Technology (IAT'08)

9 - 12 December 2008

Sydney Australia



Conference Sponsors



IEEE Computer Society



Web Intelligence Consortium (WIC)



Association for Computing Machinery (ACM)



Air Force Office of Scientific Research (AFOSR)



Asian Office of Aerospace Research & Development (AOARD)

Co-Organized and In Cooperation With



Institute of Electrical and Electronics Engineers (IEEE)



University of Technology, Sydney

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Message from the Conference and Program Chairs

We are pleased to give you a warm welcome to the 2008 IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI'08 and IAT'08). On behalf of the WI'08 and IAT'08 Conference Committees, we would like to thank you for your participation and we do hope that you will enjoy the conference technical and social programs as well as the lovely city, Sydney.

The WI'08 and IAT'08 conferences are sponsored and organized by the IEEE Computer Society Technical Committee on Intelligent Informatics (TCII), Web Intelligence Consortium (WIC), and by ACM SIGART.

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. WI'08 and IAT'08 received 651 submissions (430 for WI'08 and 221 for IAT'08) to the research and industry tracks from 59 countries and regions: Algeria, Australia, Austria, Azerbaijan, Belgium, Brazil, Canada, Chile, China, Colombia, Cyprus, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Hong Kong, Hungary, India, Iran, Ireland, Israel, Italy, Japan, Jordan, Korea, Luxembourg, Kuwait, Macau, Malaysia, Mexico, Myanmar, New Zealand, Nigeria, Norway, Oman, Pakistan, Poland, Portugal, Russia, Senegal, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Taiwan, Thailand, The Netherlands, Tunisia, Turkey, Uganda, UK, USA, Venezuela, and Vietnam.

The submitted full-length papers went through a rigorous reviewing process. Each of the 651 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 18% of the 430 WI'08 submissions were accepted as regular papers and 20% were accepted as short papers. For IAT'08, around 19% of the 221 submissions were accepted as regular papers and 25% were accepted as short papers. In addition to the paper presentations at the research tracks, our technical program also features 6 invited talks, a WIC feature talk, 4 tutorials, and 16 workshops, including a doctoral workshop that is a new feature added to this conference.

Many thanks go to the following distinguished guest speakers for the delivery of insightful keynote/invited talks, including Edmund H. Durfee (University of Michigan, USA), Toru Ishida (Kyoto University, Japan), Nigel Shadbolt (University of Southampton, UK), Tsau Young Lin (San Jose State University, USA), Yanchun Zhang (Victoria University, Australia), and Michael Witbrock (Cycorp Europe). We also thank Jiming Liu (Hong Kong Baptist University) for the WIC feature talk, which is a good feature added at this conference since 2006. We are pretty sure that these talks will invoke profound intellectual discoveries.

As the Web continues to grow and evolve, many new problems and challenges are being introduced. The WI-IAT workshops provide a venue and forum for contributions in specialized sub-areas of Web Intelligence and Intelligent Agent Technology, and allow authors to present new and emerging trends in methods and technologies to dedicated audiences. The organizers received 23 proposals for WI-IAT 2008 workshops, out of which 16 were accepted, representing a variety of selected special topics. The 16 workshops received 411 submissions in total. We express our sincere gratitude to the workshop chairs (Yuefeng Li and Gabriella Pasi) and organizers of each workshop for their great efforts and hard work to make an exciting workshop program.

It is impossible to organize any high quality conference without enormous support and expertise of many top class researchers and leaders. Our sincere thanks are due to all chairs, co-chairs, vice-chairs, WIC advisory board members, WIC technical committee and WI/IAT steering committee members, program committee members, reviewers, conference secretariat, Web support and volunteer team as well as Cyber-Chair for their wonderful contribution. Our special thanks go to Dr Juzhen Dong, Ms Li Liu, Mr Chayapol Moemeng and Stephen Franklin for their great support.

We wish to show our appreciation to the sponsors of our WI'08 and IAT'08. We are grateful to the authors, presenters and delegates for their contribution and participation. We wish to thank the staff at the IEEE Computer Society Press for their very professional support in compiling the proceedings.

Chengqi Zhang and Nick Cercone
Conference General Chairs

Lakhmi C. Jain
Program Chair

General Information

Your Badge

Each badge carries the name and affiliation of the badge holder. Admission to the conference and workshop sessions is by badge only. If you lose your badge, please go to the Registration Desk for a replacement.

Lunches

Lunches, in general 12:30-14:00, are included in the conference registration. Lunches for conference and workshops are at the China Grant Restaurant, Level 3, Market City, China Town (the building opposite to Building 5, UTS Haymarket Campus).

Conference Registration

December 8,	4:00pm – 8:00pm,	Lobby Block C, Building 5, UTS Haymarket Campus
December 9,	8:00am – 6:00pm,	Lobby Block C, Building 5, UTS Haymarket Campus
December 10-12,	8:00am – 6:00pm,	Lobby Block B, Building 5, UTS Haymarket Campus

Conference Reception

December 10, 6:00pm – 8:00pm, Lobby Block C, Building 5, UTS Haymarket Campus

Conference Banquet/Award Ceremony

December 11, 6:30pm – 10:00pm, Showboat Cruise Dinner, at King Street Wharf #5, Darling Harbour
Please gather at Lobby Block B, Building 5, UTS Haymarket Campus at 6:30pm for departing to King Street Wharf #5, Darling Harbour. Otherwise please be sure of arriving at King Street Wharf #5, Darling Harbour at 19:00 for boarding (Please bring your banquet ticket).

Tea/Coffee Breaks

Workshop morning and afternoon tea/coffee breaks are served at Lobby Block C, Building 5, UTS Haymarket Campus, conference morning and afternoon tea/coffee breaks are served at Lobby Block B, Building 5.

Volunteers

You may ask Volunteers for help for any questions. They will be happy to help you.

Language

The conference and all its activities will be conducted in English.

Smoking Policy

No Smoking is permitted in the WI/IAT 2008 rooms.

General Inquiries

If you have anything regarding the conference organization, please contact the conference Organizing Chair: Longbing Cao at 0423255257.

Information for Session Chairs and Presenters

Facilities at the Presentation Room

All rooms are equipped with a desktop and digital projector connected to the desktop. The overhead projector will be available on request only.

Presentation Time

The presentation time allocated to each regular paper is 20 minutes, and 10 minutes for each short paper, including questions and answers.

Session Chairs

If you cannot fulfill your duties as a session chair, please ensure that someone else will take your place as the session chair, or contact the conference Program Chair to arrange a back-up.

Session chairs are kindly requested to help with the followings:

1. Note the time allocated for each paper in your session. Each regular paper is allocated 20 minutes (15 minutes for the presentation plus 5 minutes for discussion). Each short paper is allocated 10 minutes (8 minutes for the presentation plus 2 minutes for discussion).
2. Arrive at the room of the session 5 minutes before the session starts and identify each of the speakers for the session.
3. Suggest each speaker to keep corresponding time for discussions (questions and answers), and for transition to the next presentation. If a presentation extends into the time for discussions, please shorten the discussions accordingly or postpone the discussions until after the session.
4. Do not allow presentations or the subsequent discussions to spill beyond the starting time of the next presentation.
5. If the presenter of a paper is absent ("no-show"), please continue to the next presentation. Please check again at the end of the last presentation whether the "no-show" shows up. Best efforts have been made to reduce the number of no-shows; however, they may not be eliminated.
6. Each presentation room is equipped with a digital projector. If something is not working properly, please contact a volunteer for help.

Presenters

Please check your presentation time and room. Please go to the room 5 minutes before the session starts and identify yourself to the session chairs.

1. Note the time allocated for each regular paper is 20 minutes (15 minutes for your presentation plus 5 minutes for discussion) and 10 minutes for each short paper (2 minutes for discussions).
2. When it is your turn to present, please leave corresponding time for discussion (questions and answers), and for transition to the next presentation. If your presentation extends into the time for discussions, discussions on your paper will be shortened by the session chair accordingly or postpone until after the session.
3. Please do not exceed your allocated time. Please follow the instructions of the Session Chairs.

If you cannot find your name in Sessions or your information is incorrect in the Program Booklet, please contact the Program Chair.

Internet Access Guide

(The account provided to you is valid ONLY between December 9 - 12 for WI-IAT 2008 conference)

An Account Example is as Follows (use your own account please):

CAO, Longbing
 Login ID: m0027276
 Password: lcao6840

How can you access UTS Internet during the conference of WI-IAT2008?

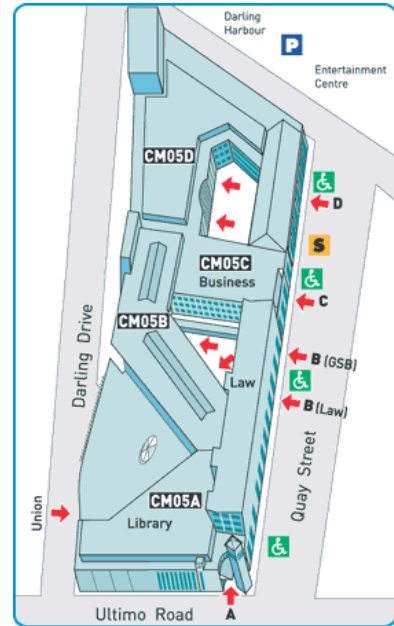
PC Desktop Access:

There are several PCs in the foyer area of Block C (CM05C) which is the area next to conference venue in the same building (see the map, Conference venue is CM05B.). You may use these PCs to check your emails occasionally.

Wireless Access:

(Signal only covers Block C, CM05C. See the map)

- **Step 1:** You will need to ensure your laptop has the wireless connection enabled. To do this, go to your Control Panel, select Network and Internet Connections and then Network Connections. Click on the Wireless Network Connection and select Enable.
- **Step 2:** Then select "UTS-Wireless" as your wireless connection. Depending on your location within the campus, there may be more than one wireless networks available. You should always select UTS-Wireless as it appears on the wireless network profiles.
- **Step 3:** Then open your web browser. You will be redirected to the UTS Wireless Network login page. If not, attempting to browse to any site on the Internet will take you to the login page. Connecting to the UTS Wireless Network requires the Java Runtime Environment (JRE) to be installed on your laptop. JRE comes pre-installed on Mac OS X but may or may not be installed on Windows or Linux. If not installed, download JRE by clicking on the Windows or Linux JRE links and then run the downloaded executable.
- **Step 4:** The first time you connect to the wireless network, you may need to install an ActiveX control if you see the message below appear below your navigation bar in your browser. Click on the "Click here to install" message if it appears under your task bar.
- **Step 5:** When authenticated and successfully connected to the UTS Wireless Network, you will find the Network Connect icon located in the system tray.
- **Step 6:** To disconnect from the Wireless Network, double click on the icon to display the Network Connect application screen and then click on "Sign Out", or the "Lock" icon on the taskbar.



Program at a Glance

WORKSHOP & TUTORIAL Program AT A GLANCE

Tuesday December 9, 2008			
09:00-12:30 Including Tea/Coffee Break (10:30-11:00) [Lobby, Block C, Building 5, Haymarket Campus, UTS]			
CISWSN 2008 [C.2.42]	WPRRS 2008 [C.1.21]	IWI 2008 [C.1.19]	IEG 2008 [D.112]
<i>The 2nd Workshop on Collective Intelligence in Semantic Web and Social Networks</i> Chairs: Jason J. Jung, Tudor Groza, Hak Lae Kim	<i>International Workshop on Web Personalization, Reputation and Recommender Systems</i> Chairs: Yue Xu, Audun Jøsang, Yuefeng Li	<i>International Workshop on Intelligent Web Interaction</i> Chairs: Tsuyoshi Murata, Seiji Yamada	<i>Workshop on Intelligent E-government</i> Chairs: Ning Wang, Xin Ye, Liming Zhu, Shaobo Ji
NLPOE 2008 [C115]	TUMAS-A 2008 [C.2.41]	IWCSN 2008 [C.2.38]	ODM 2008 [C.2.36]
<i>Workshop on Natural Language Processing and Ontology Engineering</i> Chairs: Zhifang Sui, Yao Liu	<i>Workshop on Web Intelligence & Intelligent Agent Technology in eLearning</i> Chairs: Jesús G. Boticario, Olga C. Santos, Rafael Calvo	<i>International Workshop on Computational Social Networks</i> Chairs: Vaclav Snasel, Ajith Abraham, James Peters, Aboul Ella Hassanien, Gerald Schaefer	<i>Workshop on Optimization-based Data Mining and Web Intelligence</i> Chairs: Yong Shi, Jing He
HAI 2008 [C105]	ECBS 2009 [C.2.40]	ADMI 2008 [C.1.20]	Doctoral Workshop [C.2.37]
<i>The 2nd International Workshop on Human Aspects in Ambient Intelligence: Agent Technology, Human-Oriented Knowledge and Applications</i> Chair: Jan Treur et al.	<i>International Workshop on E-Commerce, Business, and Services</i> Chairs: Takayuki Ito, Minjie Zhang	<i>International Workshop on Agents and Data Mining Interaction</i> Chair: Longbing Cao, Vladimir Gorodetsky, Jiming Liu	<i>2008 WI-IAT Doctoral Workshop</i> Chairs: Marcin Szczuka, Ryszard Kowalczyk, Hui Wang, Xiaohui Tao
WIRSS 2008 [C111]	WLIAMAS 2008 [C113]	Tutorial 1 [B112]	Tutorial 2 [B113]
<i>International Workshop on Web Information Retrieval Support Systems</i> Chairs: Orland Hoerber, Yiyu Yao	<i>Workshop on Logics for Intelligent Agents and Multi-Agent Systems</i> Chairs: Mehmet Orgun, Guido Governatori, Chuchang Liu, Mark Reynolds, Abdul Sattar	<i>Combined Mining: Extracting Actionable Patterns from Complex Data</i> Lecturers: Yanchang Zhao and Huaifeng Zhang	<i>Modeling Agent Organizations</i> Lecturers: Virginia Dignum, Frank Dignum
12:30-14:00 Lunch [China Grant Restaurant, Level 3, Market City, China Town]			
14:00-18:30 Including Tea/Coffee Break (15:30-16:00) [Lobby, Block C, Building 5, Haymarket Campus, UTS]			
FLOW 2008 [C111]	WPRRS 2008 [C.1.21]	IWI 2008 [C.1.19]	IEG 2008 [D.112]
<i>International Workshop on Fuzzy Logic On the Web</i> Chairs: Stijn Heymans, Martine De Cock, Dirk Vermeir, Elie Sanchez	<i>International Workshop on Web Personalization, Reputation and Recommender Systems</i> Chair: Yue Xu	<i>International Workshop on Intelligent Web Interaction</i> Chairs: Tsuyoshi Murata, Seiji Yamada	<i>Workshop on Intelligent E-government</i> Chairs: Ning Wang, Xin Ye, Liming Zhu, Shaobo Ji
NLPOE 2008 [C115]	TUMAS-A 2008 [C.2.41]	IWCSN 2008 [C.2.38]	ODM 2008 [C.2.36]
<i>Workshop on Natural Language Processing and Ontology Engineering</i> Chairs: Zhifang Sui, Yao Liu	<i>Workshop on Web Intelligence & Intelligent Agent Technology in eLearning</i> Chairs: Jesús G. Boticario, Olga C. Santos, Rafael Calvo	<i>International Workshop on Computational Social Networks</i> Chairs: Vaclav Snasel, Ajith Abraham, James Peters, Aboul Ella Hassanien, Gerald Schaefer	<i>Workshop on Optimization-based Data Mining and Web Intelligence</i> Chairs: Yong Shi, Jing He
HAI 2008 [C105]	ECBS 2009 [C.2.40]	ADMI 2008 [C.1.20]	Doctoral Workshop [C.2.37]
<i>The 2nd International Workshop on Human Aspects in Ambient Intelligence: Agent Technology, Human-Oriented Knowledge and Applications</i> Chair: Jan Treur	<i>International Workshop on E-Commerce, Business, and Services</i> Chairs: Takayuki Ito, Minjie Zhang	<i>International Workshop on Agents and Data Mining Interaction</i> Chair: Longbing Cao, Gorodetsky Vladimir, Jiming Liu	<i>2008 WI-IAT Doctoral Workshop</i> Chairs: Marcin Szczuka, Ryszard Kowalczyk, Hui Wang, Xiaohui Tao
	WImBI & P2P [C113]	Tutorial 3 [B112]	Tutorial 4 [B113]
	<i>International Workshop on New Computing Paradigms for Web Intelligence meet Brain Informatics & Workshop on P2P Computing and Autonomous Agents</i> Chairs: Paul Wen, Yan Li & Tarek Helmy	<i>Matching Words and Pictures: Problems, and Applications in the Web</i> Lecturer: Latifur Khan	<i>Web Content Mining</i> Lecturer: Václav Snášel

WI/IAT 2008 Program AT A GLANCE

Wednesday December 10, 2008	08:45-09:15 Conference Opening [B111]							
	09:15-10:15 WI/IAT Invited Talk [B111] Chair: Chengqi Zhang <i>Planning for Coordination and Coordination for Planning</i> by Edmund H. Durfee							
	10:15-10:45 Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]							
	10:45	Session 10-A-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Dietrich Albert	Session 10-A-WI-2 [B112] <i>Semantics and Ontology Engineering</i> Chair: Krzysztof Juszczyszyn	Session 10-A-WI-3 [B113] <i>Web Information Filtering and Retrieval</i> Chair: Ngoc Thanh Nguyen	Session 10-A-WI-4 [C.1.19] <i>Social Networks and Social Intelligence</i> Chair: James Caverlee	Session 10-A-IAT-5 [C.1.20] <i>Autonomy-Oriented Computing (AOC)</i> Chair: Shih-Fen Cheng	Session 10-A-IAT-6 [C.1.21] <i>Agent Systems Modeling and Methodology</i> Chair: Yuri Tjjerino	
	12:45	Lunch [China Grant Restaurant, Level 3, Market City, China Town]						
	14:00-14:45 WI/IAT Invited Talk [B111] Chair: Longbing Cao <i>Knowledge Based Search Engine: Granular Computing on the Web</i> by Tsau Young Lin							
	14:45-15:30 WIC Feature Talk [B111] Chair: Matthias Klusch <i>Autonomy-Oriented Computing for Web Intelligence and Brain Informatics</i> Jiming Liu							
	15:30-16:00 Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]							
	16:00	Session 10-B-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Orland Hoerber	Session 10-B-WI-2 [B112] <i>Semantics and Ontology Engineering</i> Chair: Francesco Amigoni	Session 10-B-WI-3 [B113] <i>Web Information Filtering and Retrieval</i> Chair: Klemens Böhm	Session 10-B-WI-4 [C.1.19] <i>Social Networks and Social Intelligence</i> Chair: Makoto Yokoo	Session 10-B-IAT-5 [C.1.20] <i>Autonomy-Oriented Computing (AOC)</i> Chair: Alessandro Cucchiarelli	Session 10-B-IAT-6 [C.1.21] <i>Agent Systems Modeling and Methodology</i> Chair: Virginia Dignum	
	18:00-20:00 Reception [Lobby, Block C, Building 5, Haymarket Campus, UTS]							
Thursday December 11, 2008	09:00-10:00 WI/IAT Invited Talk [B111] Chair: Boi Falting <i>The Emergence of Web Science</i> by Nigel Shadbolt							
	10:00-10:30 Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]							
	10:30	Session 11-A-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Pericles A.Mitkas	Session 11-A-WI-2 [B112] <i>Semantics and Ontology Engineering</i> Chair: Madhu Goyal	Session 11-A-WI-3 [B113] <i>Web Information Filtering and Retrieval</i> Chair: Xiaocong Fan	Session 11-A-WI-4 [C.1.19] <i>Social Networks and Social Intelligence</i> Chair: Jing He	Session 11-A-IAT-5 [C.1.20] <i>Autonomous Knowledge and Information Agents</i> Chair: Zili Zhang	Session 11-A-IAT-6 [C.1.21] <i>Agent Systems Modeling and Methodology</i> Chair: Boi Faltings	
	12:30	Lunch [China Grant Restaurant, Level 3, Market City, China Town]						
	14:00-15:00 WI/IAT Invited Talk [B111] Chair: Nigel Shadbolt <i>The Language Grid: Service-Oriented Collective Intelligence for Intercultural Collaboration</i> by Toru Ishida							
	15:00-15:30 Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]							
	15:30	Session 11-B-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Yuefeng Li	Session 11-B-WI-2 [B112] <i>WI Foundations & World Wide Wisdom Web</i> Chair: Huaifeng Zhang	Session 11-B-WI-3 [B113] <i>Web Information Filtering and Retrieval</i> Chair: Richi Nayak	Session 11-B-WI-4 [C.1.19] <i>Intelligent e-Technology and Applications</i> Chair: Ngoc Thanh Nguyen	Session 11-B-IAT-5 [C.1.20] <i>Distributed Problem Solving</i> Chair: Mark Hoogendoorn	Session 11-B-IAT-6 [C.1.21] <i>Agent Systems Modeling and Methodology</i> Chair: Frank Dignum	
	18:30-22:00 Banquet/Award Ceremony [Showboat Cruise Dinner, King Street Wharf #5, Darling Harbour]							
	Friday December 12, 2008	09:00-9:45 WI/IAT Invited Talk [B111] Chair: Jie Lu <i>Using Web Clustering for Web Community Mining and Analysis</i> by Yanchun Zhang						
		9:45-10:30 WI/IAT Invited Talk [B111] Chair: Lakhmi Jain <i>Thinking Big - AI at Web Scale</i> by Michael Witbrock						
10:30-11:00 Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]								
11:00		Session 12-A-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Bogdan Gabrys	Session 12-A-WI-2 [B112] <i>Web Agents & Web Services</i> Chair: Ajith Abraham	Session 12-A-WI-3 [B113] <i>Intelligent Human-Web Interaction</i> Chair: Helen Lu	Session 12-A-IAT-4 [C.1.19] <i>Autonomous Auctions and Negotiation</i> Chair: Chayapol Moemeng	Session 12-A-IAT-5 [C.1.20] <i>MAS Applications</i> Chair: Vladimir Gorodetsky		
12:30		Lunch [China Grant Restaurant, Level 3, Market City, China Town]						
14:00		Session 12-B-WI-1 [B111] <i>Web Mining and Farming</i> Chair: Peter Herrmann	Session 12-B-WI-2 [B112] <i>Web Support Services</i> Chair: Gabriella Pasi	Session 12-B-WI-3 [B113] <i>Intelligent E-Technology</i> Chair: Yanchang Zhao	Session 12-B-IAT-4 [C.1.19] <i>MAS Applications</i> Chair: Hien Nguyen	Session 12-B-IAT-5 [C.1.20] <i>Others</i> Chair: Marcin Szczuka		
15:30		Tea/Coffee Break [Lobby, Block B, Building 5, Haymarket Campus, UTS]						

Workshop & Tutorial Program

Tuesday, December 9, 2008 (Building 5, Haymarket Campus, UTS)

General Information for All Workshops

Morning Tea/Coffee Break (10:30--11:00)

Location: Lobby, Block C, Building 5, Haymarket Campus, UTS

Conference Lunch (12:30-14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

Afternoon Tea/Coffee Break (15:30-16:00)

Location: Lobby, Block C, Building 5, Haymarket Campus, UTS

The 2nd Workshop on Collective Intelligence in Semantic Web and Social Networks (CISWSN 2008)

Workshop Co-Chairs: Jason J. Jung, Tudor Groza, Hak Lae Kim

Location: C.2.42

Session 1 (9:00-10:30)

- ◆ *Temporal Changes in Connection Patterns of an Email-based Social Network*, Krzysztof Juszczyszyn, Przemyslaw Kazienko, Katarzyna Musial, and Bogdan Gabrys
- ◆ *Collaborative Support for Community Data Sharing*, Gianluca Correndo and Harith Alani
- ◆ *PRIMO -Towards Privacy Aware Image Sharing*, Thorben Burghardt, Andreas Walter, Erik Buchmann, and Klemens Böhm
- ◆ *Interleaving Ontology Mapping for Online Semantic Annotation on Semantic Wiki*, Jinhyun Ahn, Jason J. Jung, and Key-Sun Choi

Session 2 (11:00-12:30)

- ◆ *A Study on Community Formation in Collaborative Tagging Systems*, Christo Dichev, Jinsheng Xu, Darina Dicheva, and Jinghua Zhang
- ◆ *A Method for Integration across Text Corpus and WordNet-based Ontologies*, Trong Hai Duong, Ngoc Thanh Nguyen, and Geun Sik Jo
- ◆ *A Decisional Trust Implementation on a Maintenance System by the Means of Decisional DNA and Reflexive Ontologies*, Cesar Sanin and Edward Szczerbicki

Workshop on Web Personalization, Reputation and Recommender Systems (WPRRS 2008)

Workshop Co-Chairs: Yue Xu, Audun Jøsang, Yuefeng Li

Location: C.1.21

Session 1 (09:00-10:30)

- ◆ *Discovering and Modelling Multiple Interests of Users in Collaborative Tagging Systems*, Ching Man Au Yeung, Nicholas Gibbins, and Nigel Shadbolt
- ◆ *Improving the Amazon Review System by Exploiting the Credibility and Time-Decay of Public Reviews*, Bo-Chun Wang, Wen-Yuan Zhu, and Ling Jyh Chen

- ◆ *Collaborative Filtering Recommender Systems Using Tag Information*, Huizhi Liang, Yue Xu, Yuefeng Li, and Richi Nayak

Session 2 (11:00-12:30)

- ◆ *Pervasive Web News Recommendation for Visually-Impaired People*, Wei Chen, Li-jun Zhang, Chun Chen, and Jiajun Bu
- ◆ *Interest Mining and Recommender System for Local Activities*, Guangyao Cheng

Session 3 (14:00-15:30)

- ◆ *Context-dependent Reputation Management for Soft Security in Multi Agent Systems*, Cristian Bertocco and Carlo Ferrari
- ◆ *Integrating Trust with Public Reputation in Location-based Social Networks for Recommendation Making*, Touhid Bhuiyan, Audun Josang, and Yue Xu
- ◆ *A Computational Distributed Reputation Model for B2C E-commerce*, Anna Gutowska and Kevan Buckley
- ◆ *Cross-Situation Trust Reasoning*, Mozghan Tavakolifard, Svein J. Knapskog, and Peter Herrmann

Session 4 (16:00-18:30)

- ◆ *Spatial Relation based Object Extraction from the World Wide Web*, Jingmin Hao, Lejian Liao, and Di He
- ◆ *On Modelling and Synthetically Generating Web Usage Data*, Peter I. Hofgesang and Jan Peter Patist
- ◆ *Towards a SVM-struct Based Active Learning Algorithm for Least Cost Semantic Annotation*, Kaiquan Xu, Raymond Y. K. Lau, Stephen Shaoyi Liao, and Lejian Liao
- ◆ *An Enhanced Similarity Measure for Utilizing Site Structure in Web Personalization Systems*, Shaghayegh Sahebi, Farhad Oroumchian, and Ramtin Khosravi

International Workshop on Intelligent Web Interaction (IWI 2008)

Workshop Co-Chairs: Tsuyoshi Murata, Seiji Yamada

Location: C.1.19

Session 1 (09:00-10:30)

Opening

- ◆ *VisualChat: A Visualization Tool for Human-Machine Interaction*, Goh Ong Sing, Fung Chun Che, and Kok Wai Wong
- ◆ *Web-based Intelligent Photo Browser for Flood of Personal Digital Photographs*, Yuki Orii, Takayuki Nozawa, and Toshiyuki Kondo
- ◆ *Application of BBS with Visual Representation to Community Anticrime Actions Support*, asufumi Takama and Yuta Seo
- ◆ *Verbal Explaining of the Behavior of Time-series Data*, Ichiro Kobayashi and Naoko Okumura

Session 2 (11:00-12:30)

- ◆ *Implicit Groups of Web Pages as Constrained top N Concepts*, Aixiang Li, Makoto Haraguchi, and Yoshiaki Okubo
- ◆ *Discovering, Visualizing and Evaluating Online Bipartite Communities*, Tsuyoshi Murata
- ◆ *Creating and Strengthening Connections among Employees with a Blog Service*, Taro Sugahara
- ◆ *Comprehension of Invisible Specialty in Research Field through Interaction with Novice Researchers*, Daisuke Katagami, Takashi Yamada, and Katsumi Nitta

Session 3 (14:00-15:30)

- ◆ *Comparison of Performance for SVM-based Interactive Document Retrieval in Different Vector Space Models*, Takashi ONODA, Hiroshi MURATA, and Seiji YAMADA
- ◆ *Interactive Spam Filtering with Active Learning and Feature Selection*, Masayuki OKABE and Seiji YAMADA
- ◆ *Implementing News Article Category Browsing Based on Text Categorization Technique*, Choochart Haruechaiyasak, Chatchawal Sangkeetrakarn, Wittawat Jitkrittum, and Chaianun Damrongrat
- ◆ *Semantic Wiki Where Human and Agents Collaborate*, Kensaku Kawamoto, Motohiro Mase, Yasuhiko Kitamura, and Yuri Tijerino

- ◆ *A development framework for mobile user-interfaces based on HTML centric dependency injection*, Takashi Nozawa, Hajime Hotta, and Masafumi Hagiwara

Session 4 (16:00-18:30)

- ◆ *KnownStyleNoLife.com: Resource Sharing System for Explicit Fashion-related Image Annotation*, Toshiaki Toyama and Katsumi Konishi
- ◆ *Onomatopeta!: Developing Japanese Onomatopoeia Learning-Support System Utilizing Native Speakers Cooperation*, Mukarramah Yusuf, Chisato Asaga, and Chiemi Watanabe
- ◆ *An Epiphyte Architecture to enrich content in an existing educational website*, Florent Carlier and Valerie Renault
- ◆ *Intelligent Web Interactions? What, When and How?*, Zeeshan-ul-hassan Usmani, Fawzi Alghamdi, and Talal Puri

Closing

Workshop on Intelligent E-government (IEG 2008)

Workshop Co-Chairs: Ning Wang, Xin Ye, Liming Zhu, Shaobo Ji

Location: D.112

Session 1 (09:00-10:30)

Chair: Xin Ye

- ◆ *The Cognitive Processing Mechanism for the Players' Rule in MMO Game*, Seungkeun Song, Mijin Kim, and Doo Heon Song
- ◆ *E-Government System Using an Integrated Call Center System and WWW*, Yoshitoshi Murata, Yoshihisa Sato, Tsuyoshi Takayama, and Nobuyoshi Sato
- ◆ *Research on Dynamic Delegation Model*, Huaiming Li, Ke Tian, and Yingying Gao

Session 2 (11:00-12:30)

Chair: Xin Ye

- ◆ *The Model Representation in Emergency Management System*, Qiuyan Zhong, Heng Wang, and Xin Ye
- ◆ *Research on the Web Information System Development Platform Based on MVC Design Pattern*, Ning Wang, Liming Li, Yanzhang Wang, Yibing Wang, and Jing Wang
- ◆ *Specification of SA-RBAC Policy Based on Colored Petri Net*, Mingqiu Song
- ◆ *Study On the Authorization Management Model based on Organization*, Peng Zhang, Yanzhang Wang, Dong Wang, Yanjie Dong, and Ning Wang
- ◆ *An Emergency Decision Support System based on the General Decision Process*, Xin Ye, Yanzhang Wang, Hui Li, and Zailin Dai

Session 3 (14:00-15:30)

Chair: Ning Wang

- ◆ *Extraction and Representation of Feature Events based on a Knowledge Model*, Jiangnan Qiu, Yunjie Du, and Yanzhang Wang
- ◆ *E-Government for the People: Learn from North America and European Union*, Feng Ding, Yanzhang Wang, and Xin Ye
- ◆ *The Use of a Hybrid Machine Translation System in China's Government Portals*, Yue Hong Huo and Chun Yu Wang
- ◆ *Research about security audit platform in E-government system*, You Peng and Yanzhang Wang
- ◆ *E-Government Web Mining Tool Design and Implementation Based on the Semantic Web*, Chunhua Yin, siming Liu, lei chen, and Xin Ye

Workshop on Natural Language Processing and Ontology Engineering (NLPOE 2008)

Workshop Co-Chairs: Zhifang Sui, Yao Liu

Location: C115

Session 1 (09:00-10:30)

- ◆ *Word Similarity based on an Ensemble Model Using Ranking SVMs*, Hui Liu and Ruzhan Lu
- ◆ *An Ontology-based Approach to Text Summarization*, Leonhard Hennig, Winfried Umbrath, and Robert Wetzker
- ◆ *Concept Acquisition from Corpora: Using an Automatic Clustering Method Based on Chinese Measure Words*, Meng Wang, Hong Zhu, and Shi wen Yu

Session 2 (11:00-12:30)

- ◆ *Concept Extraction and Clustering for Topic Digital Library Construction*, Chengzhi Zhang
- ◆ *The Building of a CBD-based Domain Ontology in Chinese*, Zhifang Sui and Jun ZHAO
- ◆ *Personal Name Recognition Based on Categorized Linguistic Knowledge*, Weiguang Qu, Xuri Tang, and Bin Li

Session 3 (14:00-15:30)

- ◆ *Populating Ontologies in the eTourism domain*, Juana María Ruiz Martínez, José Antonio Miñarro Giménez, Laura Guillén Cárceles, Dagoberto Castellanos-Nieves, Rafael Valencia García, Francisco García Sánchez, Jesualdo Tomás Fernández Breis, and Rodrigo Martínez Béjar
- ◆ *A Rule-based Metric For Calculating Semantic Relatedness Score for the Motion Picture Industry*, Sharmin Choudhury, Kerry Raymond, and Peter Higgs
- ◆ *Exploiting Hyponymy in Extracting Relations and Enhancing Ontologies*, Bhushan Mandhani and Stephen Soderland
- ◆ *Corpus-based Extraction of Collocations in Chinese*, Hui Wang and Donghong Ji

Workshop on Web Intelligence & Intelligent Agent Technology in eLearning (TUMAS-A 2008)

Workshop Co-Chairs: Jesús G. Boticario, Olga C. Santos, Rafael Calvo

Location: C.2.41

Session 1 (09:00-10:30)

Welcome & Presentation of the workshop methodology

- ◆ *Research into Learning in an Intelligent Agent Augmented Multi-user Virtual Environment*, Michael Jacobson, Chunyan Miao, Beaumie Kim, Zhigi Shen, Mark Chavez
- ◆ *Competence formation through learning objects in a multiagent virtual educational environment*, Clara Ines Peña de Carrillo, Sergio E. Gomez Ardila, Carolina Mejia Corredor, Ramon Fabregat Gesa
- ◆ *nAble Adaptive Scaffolding Agent- Intelligent Support for Novices*, Joseph MacInnes, Stephanie Santosa, Nathan Kronenfeld, Judi McCuaig, William Wright

Session 2 (11:00-12:30)

- ◆ *Presentation of a list of open issues for the three sessions*
- ◆ *Learning café methodology for open issues 1*

Session 3 (14:00-15:30)

- ◆ *Concept Map Mining: A definition and a framework for its evaluation*, Jorge Villalon, Rafael Calvo.
- ◆ *Intelligent support for inclusive eLearning*, Olga C. Santos, Jesus G. Boticario
- ◆ *Learning café methodology for open issues 2*

Session 4 (16:00-18:30)

- ◆ *Competency-based Curriculum Intelligent Sequencing: Comparing Two Evolutionary Approaches*, Luis de Marcos, Jose Javier Martinez, Jose Antonio Gutierrez
- ◆ *Multidimensional Adaptations for Open Learning Management Systems*, Silvia Baldiris, Olga C. Santos, David Huerva, Ramon Fabregat Gesa, Jesus G. Boticario
- ◆ *Learning café methodology for open issue 3*

Workshop conclusions: *results of the Learning café sessions*

**International Workshop on Computational Social Networks
(IWCSN 2008)**

**Workshop Co-Chairs: Vaclav Snasel, Ajith Abraham, James Peters, Aboul Ella Hassanien,
Gerald Schaefer**

Location: C.2.38

Session 1 (09:00-10:30)

Opening remarks

- ◆ *Personalized Advertising Strategy for Integrated Social Networking Websites*, Chang-Tai Hsieh, Chun-Ming Liang, and Shih-Chun Chou
- ◆ *Analysis of Relations in eLearning*, Jan Martinovic, Pavla Drazdilova, Katerina Slaninova, and Vaclav Snasel
- ◆ *Toward a Linkography Design Visualization Tool*, Hyojeong Kwon, Doo Heon Song, and Cheeyong Kim

Session 2 (11:00-12:30)

- ◆ *Social and Personal Context Modeling for Contact List Recommendation on Mobile Device*, Jun-Ki Min, Hee-Taek Kim, and Sung-Bae Cho
- ◆ *Web Communities Defined by Web Page Content*, Milos Kudelka, Vaclav Snasel, and Zdenek Horak
- ◆ *Understanding social networks using Formal Concept Analysis*, Vaclav Snasel, Zdenek Horak, and Ajith Abraham
- ◆ *Vector Opinion Dynamics: An extended model for consensus in social networks*, Alya Alaali, Maryam Purvis, and Bastin Tony Roy Savarimuthu

Session 3 (14:00-15:30)

- ◆ *Identifying Opinion Leaders in BBS*, Zhongwu Zhai
- ◆ *Link-based Anomaly Detection in Communication Networks*, Xiaomeng Wan, Evangelos Milios, Nauzer Kalyaniwalla, and Jeannette Janssen
- ◆ *Extracting and Analysing Social Networks for Physicians*, Saujoe Liaw, Wilson Wong, Wei Liu and David Glance

Round table discussions and closing remarks

**Workshop on Optimization-based Data Mining and Web Intelligence
(ODM 2008)**

Workshop Co-Chairs: Yong Shi, Jing He

Location: C.2.36

Session 1 (09:00-10:30)

- ◆ *Using k-Interactive Measure in Optimization-Based Data Mining*, Nian Yan, Zhengxin Chen, Yong Shi
- ◆ *Particle Swarm Optimization Based Clustering Of Web Usage Data*, Shafiq Alam, Gillian Dobbie, and Patricia Riddle

Session 2 (11:00-12:30)

- ◆ *DEA-Based Comprehensive Evaluation of Intelligent Knowledge*, LingLing Zhang, Jie Wei, Anqiang Huang, Jun Li, Peng Zhang,

and Meihong Zhu

- ◆ *Inter-Frame Change Directing Online Clustering of Multiple Moving Objects for Sensor Networks*, Guangyan Huang, Jing HE, Zhiming Ding
- ◆ *Web Image Clustering Based-on Multi-Instance*, Jing Lu, Shaoping Ma, and Min Zhang
- ◆ *Enabling a Meta-synthetic Discovery Workshop for Social Consensus Process*, Xijin Tang

Session 3 (14:00-15:30)

- ◆ *Tailoring Taxonomies for Efficient Text*, Robert Wetzker, Winfried Umbrath, Leonhard Hennig, Christian Bauckhage, Tansu Alpcan, and Florian Metzger
- ◆ *A Utility-based Web Content Sensitivity Mining Approach*, Ying Liu, Cheng Wang, Liheng Jian, Peng Zhang
- ◆ *Effective Ranking and Recommendation on Web Page Retrieval by Integrating Association Mining and PageRank*, Ja-Hwung Su, Bo-Wen Wang and Vincent S. Tseng
- ◆ *Keyword-Labeled Classification with Auxiliary Unlabeled Documents*, Congle Zhang, Dikan Xing, Ke Zhou, Gui-Rong Xue, Yong Yu

Session 4 (16:00-18:30)

- ◆ *A Bias-Variance Analysis of Multiple Criteria Linear Programming Classification Ensembles*, Mei-hong Zhu, Yong Shi, Ai-hua Li
- ◆ *Select Objective Functions for Multiple Criteria Programming Classification*, Peng Zhang, Yingjie Tian, Zhiwang Zhang, Aihua Li and Xingquan Zhu
- ◆ *Data Mining for Seismic Exploration*, Zhongbin Ouyang, Jing He, Keliang Zhang

The 2nd International Workshop on Human Aspects in Ambient Intelligence: Agent Technology, Human-Oriented Knowledge and Applications (HAI 2008)

Workshop Co-Chairs: Jan Treur et al.

Location: C105

Introduction (09.00 - 09.10)

Session 1 - Challenges in Human-Aware Ambient Intelligence (09:10-10:30)

- ◆ Invited talk - *Lifelong ambient companions: challenges and steps to overcome them*, Judy Kay (09.10 - 10.00)
- ◆ *Extracting Key Factors to Design Applications in Ambient Intelligence Environment Remedies for Monitored Problems*, Hiroaki Kimura and Tatsuo Nakajima

Session 2 - Human-Ambient Agent Interaction (11:00-12:30)

- ◆ *Effects of Autonomy, Traffic Conditions and Driver Personality Traits on Attitudes and Trust towards In-Vehicle Agents*, Henriette Cramer, Vanessa Evers, Nicander Kemper, and Bob Wielinga
- ◆ *Segmentation and Tracking for Vision Based Human Robot Interaction*, Salman Valibeik and Guang-Zhong Yang
- ◆ *A Framework for Perceptual Functions of Symbiotic Computing*, Susumu Konno, Yusuke Manabe, Shigeru Fujita, Kenji Sugawara, Tetsuo Kinoshita, and Norio Shiratori

Session 3 - Monitoring and Diagnosis of Wellbeing (14:00-15:30)

- ◆ *Invited talk - Personalized Heart Monitoring*, Peter Leijdekkers (14.00 - 15.00)
- ◆ *An Ambient Intelligent Agent Model using Controlled Model-Based Reasoning to Determine Causes and Remedies for Monitored Problems*, Rob Duell, Mark Hoogendoorn, Michel Klein, and Jan Treur

Session 4 – Emotions (16:00-18:30)

- ◆ *Affect as Information about Users' Attitudes to Conversational Agents*, Michal Ptaszynski, Pawel Dybala, Shinsuke Higuchi, Rafal Rzepka, and Kenji Araki
- ◆ *A New Approach to Emotion Assessment Based on Biometric Data*, Jorge Teixeira, Vasco Vinhas, Eugénio Oliveira, and Luís Reis

Discussion and closing

International Workshop on E-Commerce, Business, and Services (ECBS 2008)

Workshop Co-Chairs: Takayuki Ito, Minjie Zhang

Location: C.2.40

Session 1 (09:00-10:30)

Chair: Tokuro Matsuo

Opening by Minjie Zhang (9:00 – 9:10)

- ◆ *An Analysis of Visual and Presentation Factors Influencing the Design of E-Commerce Web Sites*, Banatus Soiraya, Anirach Mingkhwan, and Choochart Haruechaiyasak
- ◆ *An Approach to Ranking Participants based on Relationship Network in E-Commerce*, Masao Kobayashi and Takayuki Ito
- ◆ *An Efficient Approach to Compose Web Services*, Hongbing Wang

Session 2 (11:00-12:30)

Chair: Minjie Zhang

- ◆ *A Pragmatic Approach to Realizing Context-Aware Personal Services*, Sangkeun Lee, Dongjoo Lee, Seungseok Kang, and Sang-goo Lee
- ◆ *Indexing Method for Transitive Relationships of Product Information*, Lee Hyunja and Shim Junho

Session 3 (14:00-15:30)

Chair: Naoki Fukuta

- ◆ *Modeling Support for Simulating Traffic Intensive Web Applications*, Ka I Pun, Kin Chan Pau, and Yain Whar Si
- ◆ *Winner Price Monotonicity for Approximated Combinatorial Auctions*, Naoki Fukuta and Takayuki Ito
- ◆ *Modelling User Behaviour for Web Recommendation Using LDA Model*, Guandong Xu and Yanchun Zhang

International Workshop on Agents and Data Mining Interaction (ADMI 2008)

Workshop Co-Chairs: Longbing Cao, Vladimir Gorodetsky, Jiming Liu

Location: C.1.20

Opening by Vladimir Gorodetsky (9:00 – 9:15)

Keynote Speech, Chair: Vladimir Gorodetsky (9:15 – 10:00)

- ◆ *Training intelligent agents and evaluating their performance*, Pericles A. Mitkas

ADMI Feature Paper, Chair: Vladimir Gorodetsky (10:00 – 10:30)

- ◆ *A Multi-Agents Approach to Knowledge Discovery*, Cuong Tong, Dharmendra Sharma and Fariba Shadabi

Session 1 - Agent-Driven Data Mining (11:00-12:30)

Chair: Pericles Mitkas

- ◆ *Acquiring Knowledge About Explicit User Goals from Search Query Logs*, Markus Strohmaier, Peter Prettenhofer, Mark Kröll
- ◆ *A Learning Process Using SVMs for Multi-Agents Decision Classification*, Yanshan Xiao, Feiqi Deng, Dan Luo, Guohua Liang.
- ◆ *An Agent-Oriented Data Mining Framework for Mass Customization in the Automotive Industry*, Efthimia Mavridou, Dionysios Kehagias, Konstantinos Kalogirou, and Dimitrios Tzovaras
- ◆ *A Novel Collaborative and Personalized Multi-Agent System for Mining Transcriptional Regulatory Elements*, Yun Xiong, Guangyong Zheng, Qing Yang, and Yangyong Zhu

Session 2: Data Mining Technology for Agent Systems (14:00 – 15:30)

Chair: Ed Durfee

- ♦ *Interaction of Agents and Data Mining in Ubiquitous Environment*, Vladimir Gorodetsky, Oleg Karsaev, Vladimir Samoylov, and Sergey Serebryakov
- ♦ *Hybrid Search Methods for Automatic Discovery of Computational Agent Schemes*, Roman Neruda
- ♦ *Data Mining-Driven Analysis and Decomposition in Agent Supply Chain Management Networks*, Kyriakos Chatzidimitriou, Andreas Symeonidis, and Pericles Mitkas
- ♦ *F-TRADE 3.0: An Agent-Based Integrated Framework For Data Mining Experiments*, Peerapol Moemeng, Longbing Cao, and Chengqi Zhang

Session 3 - Integrated Agent and Data Mining Applications (16:00-18:30)

Chair: Jiming Liu

- ♦ *INSPIRE: An Integrated Agent Based System for Hypothesis Generation within Cancer Datasets*, Philip R Quinlan, Chris Reed, and Alastair Thompson
- ♦ *An ACO-based User Community Preference Clustering System for Customized Content Service in Broadband New Media Platforms*, Sanxing CAO, Ying QIN, Jianbo LIU, and Rui LU

Panel Discussions: Chair: Jiming Liu

Closing by Longbing Cao

2008 WI-IAT Doctoral Workshop

Workshop Co-Chairs: Marcin Szczuka, Ryszard Kowalczyk, Hui Wang, Xiaohui Tao

Location: C.2.37

Introduction (9:00-9:30)

Session 1 (09:30-10:30)

- ♦ *A Scalable Lightweight Distributed Crawler for crawling with limited resources*, Milly Kc, Markus Hagenbuchner, and Ah Chung Tsoi
- ♦ *Recommending in inclusive lifelong learning scenarios: identifying and managing runtime situations*, Olga C. Santos

Session 2 (11:00-12:30)

- ♦ *Utilizing Non-Redundant Association Rules from Multi-Level Datasets*, Gavin Shaw, Yue Xu, and Shlomo Geva
- ♦ *Enlightenment 2.0: Facilitating User Control in Distributed Collaborative Applications*, Matthias Quasthoff

Session 3 (14:00-15:30)

- ♦ *Weblogs, a promising new form for e-Democracy?*, Justus Bross
- ♦ *Extreme Conditions for Intelligent Agents*, Zeeshan-ul-hassan Usmani and Daniel Kirk
- ♦ *Collective User Behaviour and Tag Contextualisation in Folksonomies*, Ching Man Au Yeung, Nicholas Gibbins, and Nigel Shadbolt

Session 4 (16:00-18:30)

- ♦ *Huge Data Mining Based on Rough Set Theory and Granular Computing*, Guoyin Wang, and Feng Hu
- ♦ *Exception Mining on Multiple Time Series in Stock Market*, Chao Luo, Yanchang Zhao, Longbing Cao, Yuming Ou, and Chengqi Zhang
- ♦ *Two-Stage Model for Information Filtering*, Xujuan Zhou, Yuefeng Li, Peter Bruza, Yue Xu, and Raymond Y. K. Lau
- ♦ *Negotiation Protocol According To The Perturbation Impact In a Multi-Agent Supply Chain System For The Crisis Management*, Hayfa Zgaya, David Tang, Slim Hammadi, and Francis Bretaudeau

International Workshop on Web Information Retrieval Support Systems (WIRSS 2008)

Workshop Co-Chairs: Orland Hoerber, Yiyu Yao

Location: C111

Session 1 (09:00-10:30)

Opening Remarks & Introductions

- ◆ *Web Information Retrieval Support Systems: The Future of Web Search*, Orland Hoerber
- ◆ *Considering Data-Mining Techniques in User Preference Learning*, Alan Eckhardt and Peter Vojtas
- ◆ *Adaptive Information Filtering Based on PTM Model (APTM)*, Abdulmohsen AlGarni, Yuefeng Li, and Yue Xu

Session 2 (11:00-12:30)

- ◆ *Semantic Browsing of a Domain Related Resources: The Corese-NeLI Framework*, Gayo Diallo, Khaled Khelif, Olivier Corby, Patty Kostkova, and Gemma Madle
- ◆ *Information Filter for Ambiguous Information Retrieval*, Sayaka Akioka, Hideo Fukumori, and Yoichi Muraoka
- ◆ *A Method for Query Expansion Using the Related Word Extraction Algorithm*, Tetsuya Oishi, Shunsuke Kuramoto, Tsunenori Mine, Ryuzo Hasegawa, Hiroshi Fujita, and Miyuki Koshimura
- ◆ *A Vector Space Model on Hierarchical Structure with Dynamic Mapping Operator Creation*, Takafumi Nakanishi, Koji Zettsu, Yutaka Kidawara, and Yasushi Kiyoki

Closing Remarks

Workshop on Logics for Intelligent Agents and Multi-Agent Systems (WLIAMAS 2008)

**Workshop Co-Chairs: Mehmet Orgun, Guido Governatori, Chuchang Liu, Mark Reynolds,
Abdul Sattar**

Location: C113

Session 1 (09:00-10:30)

Opening Remarks

- ◆ *Levels of Modality for BDI Logic*, Jeff Blee, David Billington, Guido Governatori, and Abdul Sattar
- ◆ *Analytic Tableaux for Verifying Agent Beliefs*, Ji Ma and Mehmet Orgun
- ◆ *An Abstract Model for Dynamic Access Control Architectures*, Chuchang Liu, Angela Billard, and Benjamin Long

Session 2 (11:00-12:30)

- ◆ *Time and Defeasibility in FIPA ACL Semantics*, Antonino Rotolo, Guido Boella, Guido Governatori, Joris Hulstijn, Regis Riveret, and Leendert van der Torre
- ◆ *Solving Sum and Product Riddle via BDD-based Model Checking*, Xiangyu Luo, Kaile Su, Abdul Sattar, and Yan Chen
- ◆ *Extending a Defeasible Reasoner with Modal and Deontic Logic Operators*, Efstratios Kontopoulos, Nick Bassiliades, Guido Governatori, and Grigoris Antoniou

**International Workshop on Fuzzy Logic on the Web
(FLOW 2008)**

Workshop Co-Chairs: Stijn Heymans, Martine De Cock, Dirk Vermeir, Elie Sanchez

Location: C111

Session 1 (14:00-15:30)

Chair: Steven Schockaert

- ◆ *Towards a fuzzy answer set semantics for residuated logic programs*, Nicolás Madrid and Manuel Ojeda-Aciego
- ◆ *Combining Fuzzy Description Logics and Fuzzy Logic Programs*, Jidi Zhao and Harold Boley

Session 2 (16:00-18:30)

- ◆ *Filtering Short Queries by means of Fuzzy Semantic-Lexical Relations for Meta-Searchers using WordNet*, Jesus Serrano-Guerrero, Francisco P. Romero, and Jose A. Olivas
- ◆ *Acquiring Vague Temporal Information from the Web*, Steven Schockaert, Martine De Cock, and Etienne Kerre
- ◆ *Personalized Ontology-based Query Expansion*, Silvia Calegari and Gabriella Pasi

**International Workshop on New Computing Paradigms for Web Intelligence meet Brain
Informatics & Workshop on P2P Computing and Autonomous Agents
(WImBI &P2P2008)**

Workshop Co-Chairs: Paul Wen, Yan Li , Tarek Helmy

Location: C113

Time: 14:00-15:30

Chair: Yuri Tijerino

- ◆ *FAQIH: Framework for Agent-based Query-enabled Integrated Information for Health and Nutrition*, Yuri Tijerino, Tarek Helmy, and Jeffrey Bradshaw
- ◆ *Partner selection mechanisms for agent cooperation*, Toktam Ebadi, Maryam Purvis, and Martin Purvis

WI 2008 Program

Wednesday, December 10, 2008 (Building 5, Haymarket Campus, UTS)

Conference Opening (08:45--09:15)

Chairs: Chengqi Zhang

Location: B111

UTS Welcome: UTS Deputy Vice-Chancellor Prof Sue Rowley

Program: Lakhmi Jain

Housekeeping: Longbing Cao

WI/IAT : Invited Talk (09:15-10:15)

Chair: Chengqi Zhang

Location: B111

Title: Planning for Coordination and Coordination for Planning

Speaker: Edmund H. Durfee

Tea/Coffee Break (10:15-10:45)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 10-A-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Dietrich Albert

Session Time: 10:45-12:45

Regular Papers:

- ◆ *Empirical Analysis of the Rank Distribution of Relevant Documents in Web Search*, Shen Jiang, Sandra Zilles and Robert Holte
- ◆ *An Automatic Online News Topic Keyphrase Extraction System*, Canhui Wang, Min Zhang, Liyun Ru, and Shaoping Ma
- ◆ *Emotion Classification of Online News Articles from the Reader's Perspective*, Kevin Hsin-Yih Lin, Changhua Yang, and Hsin-Hsi Chen
- ◆ *Splog Filtering based on Writing Consistency*, Wei Liu, Songbo Tan, Hongbo Xu and Lihong Wang
- ◆ *From Web to Map: Exploring the World of Music*, Olga Goussevskaia, Michael Kuhn, Michael Lorenzi, and Roger Wattenhofer
- ◆ *Semantic Web Usage Mining by a Concept-based Approach for Off-line Web Site Enhancements*, Sebastián Ríos and Juan Velásquez

Session 10-A-WI-2: Semantics and Ontology Engineering (Room: B112)

Session Chair: Krzysztof Juszczyszyn

Session Time: 10:45-12:45

Regular Papers:

- ◆ *DL Reasoning and AI Planning for Web Service Composition*, Freddy Lecue, Alexandre Delteil and Alain Leger
- ◆ *Fostering Web Intelligence by Semi-automatic OWL Ontology Refinement*, Johanna Voelker and Sebastian Rudolph
- ◆ *Annotating documents by Wikipedia concepts*, Peter Schönhofen
- ◆ *An Ontology Alignment Based on Parse Tree Kernel for Combining Structural and Semantic Information Without Explicit Enumeration of Features*, Jeong-Woo Son, Seong-Bae Park and Se-Young Park
- ◆ *Adding Provenance and Evolution Information to Modularized Argumentation Models*, Tudor Groza, Siegfried Handschuh, and John Breslin
- ◆ *A Flexible Partitioning Tool for Large Ontologies*, Anne Schlicht and Heiner Stuckenschmidt

Session 10-A-WI-3: Web Information Filtering and Retrieval (Room: B113)

Session Chair: Ngoc Thanh Nguyen

Session Time: 10:45-12:45

Regular Papers:

- ◆ *Imputed Neighborhood Based Collaborative Filtering*, Xiaoyuan Su, Taghi M. Khoshgoftaar, and Russell Greiner
- ◆ *Name Disambiguation Boosted by Latent Topics from Web Directories*, Quang Minh Vu, Atsuhiko Takasu, and Jun Adachi
- ◆ *Recognizing and Filtering Web Images based on People's Existence*, Ou Wu, Haiqiang Zuo, Weiming Hu, and Mingliang Zhu
- ◆ *Quality Information Retrieval for the World Wide Web*, Milly Kc, Markus Hagenbuchner, and Ah Chung Tsoi
- ◆ *Data fusion in information retrieval using consensus aggregation operators*, Julien Ah-Pine
- ◆ *An intelligent technique for controlling web prefetching costs at the server side*, Johann Marquez, Josep Domenech, José A. Gil, and Ana Pont

Session 10-A-WI-4: Social Networks and Social Intelligence (Room: C.1.19)

Session Chair: James Caverlee

Session Time: 10:45-12:45

Regular Papers:

- ◆ *A k-Nearest-Neighbour Method for Classifying Web Search Results with Data in Folksonomies*, Ching Man Au Yeung, Nicholas Gibbins, and Nigel Shadbolt
- ◆ *Topic Detection and Tracking for Threaded Discussion Communities*, Mingliang Zhu, Weiming Hu, and Ou Wu
- ◆ *Encouragement Methods for Small Social Network Services*, Fujio Toriumi, Ken Ishida, and Kenichiro Ishii
- ◆ *Proposal for a Growth Model of Social Network Service*, Ken Ishida, Fujio Toriumi, and Kenichiro Ishii
- ◆ *TagScore: Approximate Similarity using Tag Synopses*, Alex Penev and Raymong Wong
- ◆ *Discovering and Browsing of Power Users by Social Relationship Analysis in Large-scale Online Communities*, Hyoseop Shin, Zhiwei Xu, and Seokhyun Son

Lunch (12:45-14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

WI/IAT : Invited Talk (14:00-14:45)

Chair: Longbing Cao

Location: B111

Title: Knowledge Based Search Engine: Granular Computing on the Web

Speaker: Tsau Young Lin

WIC Feature: Invited Talk (14:45-15:30)

Chair: Matthias Klusch

Location: B111

Title: Autonomy-Oriented Computing for Web Intelligence and Brain Informatics

Speaker: Jiming Liu

Tea/Coffee Break (15:30-16:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 10-B-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Orland Hoerber

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Multi-Taxonomy: An Approach to Determine Perceived Brand Characteristics from Web Data*, Scott Spangler, Larry Proctor, and Ying Chen
- ◆ *Leveraging Sentiment Analysis for Topic Detection*, Keke Cai, Scott Spangler, Ying Chen, and Li Zhang
- ◆ *Using Wavelets to Classify Documents*, Geraldo Xexeo, Jano Souza, Patrícia Castro, and Wallace Pinheiro
- ◆ *Linked Topic and Interest Model for Web Forums*, Victor Cheng and C.H. Li
- ◆ *Towards Click-based Models of Geographic Interests in Web Search*, Ziming Zhuang, Cliff Brunk, Prasenjit Mitra, and Lee Giles

Session 10-B-WI-2: Semantics and Ontology Engineering (Room: B112)

Session Chair: Francesco Amigoni

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Formal Semantics-Preserving Translation from Fuzzy ER Model to Fuzzy OWL DL Ontology*, Fu Zhang, Z. M. Ma, Yanhui Lv, and Xing Wang
- ◆ *An Ontology-based Framework For Knowledge Retrieval*, Xiaohui Tao, Yuefeng Li, Ning Zhong, and Richi Nayak
- ◆ *An Ontology-based Hierarchical Sentiment Classification Methodology for Online Consumer Reviews*, Jantima Polpinij and Aditya Ghose
- ◆ *Focused Crawling with Heterogeneous Semantic Information*, Rui Huang, Fen Lin, and Zhongzhi Shi

Short Papers:

- ◆ *Towards Distributed Ontology Reasoning for the Web*, Anne Schlicht and Heiner Stuckenschmidt
- ◆ *A software framework for translating ECA sequences from OWL-DL into Java*, Will Mepham and Steve Gardner
- ◆ *Multi-Concept Document Classification using a Perceptron-like Algorithm*, Clay Woolam and Latifur Khan
- ◆ *Evaluating Ontology Modules using an Entropy Inspired Metric*, Paul Doran, Valentina Tamma, Ignazio Palmisano, and Luigi Iannone

Session 10-B-WI-3: Web Information Filtering and Retrieval (Room: B113)

Session Chair: Klemens Böhm

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Nowhere to Hide: Finding Plagiarized Documents Based on Sentence Similarity*, Nathaniel Gustafson, Maria Soledad Pera, and Yiu-Kai Ng
- ◆ *The Metadata Triumvirate: Social Annotations, Anchor Texts and Search Queries*, Michael Noll and Christoph Meinel
- ◆ *Improving Prediction Quality in Collaborative Filtering based on Clustering*, Taek-Hun Kim, Seok-In Park, and Sung-Bong Yang
- ◆ *An Approach to Deep Web Crawling based on Sampling*, Jianguo Lu, Yan Wang, Jie Liang, Jessica Chen, and Jiming Liu

Short Papers:

- ◆ *An Unsupervised Approach to Cluster Web Search Results based on Word Sense Communities*, Jiyang Chen, Osmar Zaiane, and Randy Goebel
- ◆ *An Effective Evidence Theory based K-nearest Neighbor(KNN) classification*, Lei Wang, Latifur Khan, and Bhavani Thuraisingham
- ◆ *Discovering the Scope of Privacy Needs in Collaborative Search*, Thorben Burghardt, Erik Buchmann, and Klemens Böhm
- ◆ *Research on Trustworthy Web-Enabled Software by Human-Computer Interaction*, Jia Hu, Ning Zhong, Shengfu Lu, Haiyan Zhou, Jiajin Huang, and Shuai Huang

Session 10-B-WI-4: Social Networks and Social Intelligence (Room: C.1.19)

Session Chair: Makoto Yokoo

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Social Tagging Behaviour in Community-driven Question Answering*, Eduarda Mendes Rodrigues, Natasa Milic-Frayling, and Blaz Fortuna
- ◆ *On Modularity of Social Network Communities: The Spectral Characterization*, Bo Yang, Jiming Liu, Jianfeng Feng, and Dayou Liu
- ◆ *Expertise Analysis in Question Answer Portal for Author Ranking*, Lin Chen and Richi Nayak
- ◆ *Exploring Feedback Models in Interactive Tagging*, Robert Graham and James Caverlee
- ◆ *Exploiting additional Context for Graph-based Tag Recommendations in Folksonomy Systems*, Fabian Abel, Nicola Henze, and Daniel Krause
- ◆ *Bridging the Gap between Qualitative and Quantitative Analysis of Opinion Forums*, Carolin Kaiser, Birinda Tiwana, and Freimut Bodendorf

Reception (18:00-20:00)

Location: Lobby, Block C, Building 5, Haymarket Campus, UTS

Thursday, December 11, 2008 (Building 5, Haymarket Campus, UTS)

WI/IAT : Invited Talk (09:00 – 10:00)

Chair: Boi Falting

Location: B111

Title: The Emergence of Web Science

Speaker: Nigel Shadbolt

Tea/Coffee Break (10:00 – 10:30)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 11-A-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Pericles A.Mitkas

Session Time: 10:30-12:30

Regular Papers:

- ◆ *Learning Knowledge from Relevant Webpage for Opinion Analysis*, Ruifeng Xu, Kam-Fai Wong, Qin Lu, Yunqing Xia, and Wenjie Li
- ◆ *Experience Mining: Building a Large-Scale Database of Personal Experiences and Opinions from Web Documents*, Kentaro Inui, Shuya Abe, Hiraku Morita, Megumi Eguchi, Kazuo Hara, Koji Murakami, Suguru Matsuyoshi, Asuka Sumida, and Chitose Sao
- ◆ *Enriching Multilingual Language Resources by Discovering Missing Cross-Language Links in Wikipedia*, Jong-Hoon Oh, Daisuke Kawahara, Kiyotaka Uchimoto, Jun'ichi Kazama, and Kentaro Torisawa
- ◆ *Hybridization of K-means and Harmony Search Methods for Web Page Clustering*, Rana Forsati, MohammadReza Meybodi, Mehrdad Mahdavi and Azadeh Ghari Neiat
- ◆ *Efficient Mining of Event-Oriented Negative Sequential Rules*, Yanchang Zhao, Huaifeng Zhang, Longbing Cao, Chengqi Zhang and Hans Bohlscheid
- ◆ *A Wavelet-based Model to Recognize High-quality Topics on Web Forum*, You Chen, Xue-Qi Cheng, and Yu-Lan Huang

Session 11-A-WI-2: Semantics and Ontology Engineering (Room: B112)

Session Chair: Madhu Goyal

Session Time: 10:30-12:30

Regular Papers:

- ◆ *DLDB2: A Scalable Multi-Perspective Semantic Web Repository*, Zhengxiang Pan, Jeff Heflin, and Xingjian Zhang
- ◆ *Growing Fields of Interest - Using an Expand and Reduce Strategy for Domain Model Extraction*, Christopher Thomas, Pankaj Mehra, Roger Brooks, and Amit Sheth

Short Papers:

- ◆ *Using Text Mining to Enrich the Vocabulary of Domain Ontologies*, Mirco Speretta and Susan Gauch
- ◆ *Mining the Content of Relational Databases to Learn Ontologies with Deeper Taxonomies*, Farid Cerbah
- ◆ *Intelligent Search in Digital Documents*, Asad Khattak, Jibran Mustafa, Nabeel Ahmed, Khalid Latif and Sharifullah Khan
- ◆ *Ontology-based Personalised and Context-aware Recommendations of News Items*, Ivan Cantador, Alejandro Bellogin, and Pablo Castells
- ◆ *Goal Node Search for Semantic Web Source Selection*, Abir Qasem, Dimitre Dimitrov, and Jeff Heflin
- ◆ *Enabling A Common and Consistent Enterprise-Wide Terminology: An Initial Assessment of Available Tools*, Jayson Durham, Lifford McLauchlan, and Richard Yuster
- ◆ *F-ALCI: A Fully Contextualized, Federated Logic for the Semantic Web*, George Voutsadakis, Giora Slutzki, Vasant Honavar, and Jie Bao
- ◆ *Semantic Discovery of the User Intended Query in a Selectable Target Query Language*, Carlos Bobed, Raquel Trillo, Eduardo Mena, and Jorge Bernad

Session 11-A-WI-3: Web Information Filtering and Retrieval (Room: B113)

Session Chair: Xiaocong Fan

Session Time: 10:30-12:30

Regular Papers:

- ◆ *A Novel Language Model Based on Cognition Attention Attenuation in Web Retrieval*, Donglin Cao, Hongbo xu, Shuo Bai, Xueqi Cheng, and Shaozi Li
- ◆ *Predicting News Story Importance using Language Features*, Ralf Krestel and Bhaskar Mehta
- ◆ *Competition vs. Fairness – Analyzing Structured Networks by Means of User Experiments*, Stephan Schosser, Klemens Böhm, and Bodo Vogt

Short Papers:

- ◆ *Evaluating Performance of Recommender Systems: An experimental comparison*, Francois Fouss and Marco Saerens
- ◆ *Error Correcting Output Coding-based Conditional Random Fields for Web Page Prediction*, Yong Zhen Guo, Kotagiri Ramamohanarao, and Laurence Park
- ◆ *A Comparison of Re-ranking Methods in Digital Libraries using User Profiles*, Thanh-Trung Van and Michel Beigbeder
- ◆ *FuzzyFresh: A Fuzzy Logic Approach to the Ranking of Structured Documents*, Joaquin Perez-Iglesias, Victor Fresno, and Jose Ramon Perez-Aguera
- ◆ *An Entropy-Based Model for Discovering the Usefulness of Online Product Reviews*, Richong Zhang and Thomas Tran
- ◆ *Integrating structure in the probabilistic model for Information Retrieval*, Mathias Gery, Christine Largeton, and Franck Thollard

Session 11-A-WI-4: Social Networks and Social Intelligence (Room: C.1.19)

Session Chair: Jing He

Session Time: 10:30-12:30

Regular Papers:

- ◆ *Ranking Web Pages from User Perspectives of Social Bookmarking Sites*, Chia-Hao Lo, Wen-Chih Peng, and Meng-Fen Chiang
- ◆ *Enabling Social Navigation on the Web*, Athanasios Papangelis, Manos Papangelis, and Christos Zaroliagis

Short Papers:

- ◆ *An Analytical Study of Puzzle Selection Strategies for the ESP Game*, Ling Jyh Chen, Bo-Chun Wang, Kuan Ta Chen, Irwin King, and Jimmy Ho-Man Lee
- ◆ *An Analytical Approach to Optimizing The Utility of ESP Games*, Chien-Wei Lin, Kuan Ta Chen, Ling Jyh Chen, Irwin King, and Jimmy Ho-Man Lee
- ◆ *Modeling Collaborations Content in Social Network Analysis*, Alessandro Cucchiarelli, Paola Velardi, Fulvio D'Antonio, and Mirco Curzi
- ◆ *Linking Privacy and User Preferences in the Identity Management for a Pervasive System*, Elizabeth Papadopoulou, Sarah McBurney, Nick Taylor, and Howard Williams
- ◆ *Intelligent Objects to Facilitate Human Participation in Virtual Institutions*, I. Rodriguez, Anna Puig, Marc Esteva, C. Sierra, A. Bogdanovich, and S. Simoff
- ◆ *Discovering the Dynamics in a Social Memory Network*, Lin Gao, Jiming Liu, Shiwu Zhang, and Jie Yang
- ◆ *RATE: a Review of Reviewers in a Manuscript Review Process*, Wei Wei, Kam Tong Chan, Irwin King, and Jimmy Ho-Man Lee

Lunch (12:30 – 14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

WI/IAT : Invited Talk (14:00-15:00)

Chair: Nigel Shadbolt

Location: B111

Title: The Language Grid: Service-Oriented Collective Intelligence for Intercultural Collaboration

Speaker: Toru Ishida

Tea/Coffee Break (15:00-15:30)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 11-B-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Yuefeng Li

Session Time: 15:30-17:30

Regular Papers:

- ◆ *A Concept-Driven Automatic Ontology Generation Approach for Conceptualization of Document Corpora*, Hai-Tao Zheng, Charles Borchert, and Hong-Gee Kim
- ◆ *Unsupervised Discovery of Coordinate Terms for Multiple Aspects from Search Engine Query Logs*, Masashi Yamaguchi, Hiroaki Ohshima, Satoshi Oyama, and Katsumi Tanaka
- ◆ *Leveraging Web 2.0 Sources for Web Content Classification*, Somnath Banerjee and Martin Scholz
- ◆ *U3 - mining unordered embeddd subtrees using TMG candidate generation*, Fedja Hadzic, Henry Tan, and Tharam Dillon

Short Papers:

- ◆ *Discovery of a User Interests on the Internet*, Fang Li and Yihong Li
- ◆ *Predicting the News of Tomorrow Using Patterns in Web Search Queries*, Kira Radinsky, Sagie Davidovich, and Shaul Markovitch
- ◆ *Discriminating Meaningful Web Tables from Decorative Tables Using a Composite Kernel*, Jeong-Woo Son, Jae-An Lee, Seong-Bae Park and Sang-Jo Lee
- ◆ *Co-occurrence Analysis Focused on Blogger Communities*, Shin-ya Sato, Kensuke Fukuda, Toshio Hirotsu, Satoshi Kurihara, and Toshiharu Sugawara
- ◆ *Relation Classification for Semantic Structure Annotation of Text*, Yulan Yan, Yutaka Matsuo, Mitsuru Ishizuka, and Toshio Yokoi
- ◆ *Who is it? Context Sensitive Named Entity and Instance Recognition by Means of Wikipedia*, Ulli Waltinger and Alexander Mehler

Session 11-B-WI-2: WI Foundations/World Wide Wisdom Web (W4) (Room: B112)

Session Time: 15:30-17:30

1. WI Foundations

Session Chair: Huaifeng Zhang

Regular Papers:

- ◆ *Dynamic Change Evaluation for Ontology Evolution in the Semantic Web*, Ignazio Palmisano, Valentina Tamma, Luigi Iannone, Terry Payne, and Paul Doran
- ◆ *Data-Brain Modeling Based on Brain Informatics Methodology*, Jianhui Chen and Ning Zhong

Short Papers:

- ◆ *Finding Explanations for Assisting Pattern Interpretation*, Yen-Ting Kuo, Liz Sonenberg, and Andrew Lonie

2. World Wide Wisdom Web (W4)

Session Chair: Huaifeng Zhang

Regular Papers:

- ◆ *Adaptive Processing for Multi-User Stream Service over Web-Based Broadcasting Stream*, Mi-Young Kang
- ◆ *Answering any class of Japanese non-factoid question by using the Web and example Q&A pairs from a social Q&A website*, Tatsunori Mori, Mitsuru Sato, and Madoka Ishioroshi

Short Papers:

- ♦ *Ant Colony Inspired Self-Healing for Resource Allocation in Service-Oriented Environment Considering Resource Breakdown*, Rong Zhou, Wei Ren, Gang Chen, Zhonghua Yang, Jingbing Zhang, and Ming Luo

Session 11-B-WI-3: Web Information Filtering and Retrieval (Room: B113)

Session Chair: Richi Nayak

Session Time: 15:30-17:30

Short Papers:

- ♦ *Tag Normalization and Prediction for Effective Social Media Retrieval*, Ming-Hung Hsu and Hsin-Hsi Chen
- ♦ *Supervised Textual Document Classification Using Neuronal Group Learning*, Michal Pryczek and Piotr Szczepaniak
- ♦ *Long Tail Recommender Utilizing Information Diffusion Theory*, Masayuki Ishikawa, Peter Geczy, Noriaki Izumi, and Takahira Yamaguchi
- ♦ *The Impact of Contextual Information on the Accuracy of Existing Recommender Systems for Web Personalization*, Marcos Domingues, Alipio Jorge, and Carlos Soares
- ♦ *HelpMeter: A Nonlinear Model for Predicting the Helpfulness of Online Reviews*, Yang Liu, Jimmy Xiangji Huang, Aijun An, and Xiaohui Yu
- ♦ *TheHotMap.com: Enabling Flexible Interaction in Next-Generation Web Search Interfaces*, Orland Hoerber, Michael Brooks, Daniel Schroeder, and Xue Dong Yang
- ♦ *Subjectively Related Association Term Discovery towards Personalized Web Information Retrieval*, Seung Yeol Yoo
- ♦ *Iterative Neighbourhood Similarity Computation for Collaborative Filtering*, Yun Zhang and Peter Andreae

Session 11-B-WI-4: Intelligent e-Technology and Applications (Room: C.1.19)

Session Chair: Ngoc Thanh Nguyen

Session Time: 15:30-17:30

Regular Papers:

- ♦ *Mining and Exploring Unstructured Customer Feedback Data Using Language Models and Treemap Visualizations*, Cai-Nicolas Ziegler, Michal Skubacz, and Maximilian Viermetz
- ♦ *Dynamic XML Generation According to a Given Schema*, Debarshi Raha

Short Papers:

- ♦ *A Model of Cognition-Driven Decision Process for Business Intelligence*, Li Niu and Guangquan Zhang
- ♦ *Discovering the Correlation between Stock Time Series and Financial News*, Tak-chung Fu, Ka-ki Lee, Donahue Sze, Fu-lai Chung, and Chak-man Ng
- ♦ *Mining Exceptional Activity Patterns in Microstructure Data*, Yuming Ou, Longbing Cao, Chao Luo, and Li Liu

Banquet/Award Ceremony (18:30-22:00)

Location: Showboat Cruise Dinner, King Street Wharf #5, Darling Harbour

Best Paper Awards Ceremony (Lakhmi Jain and Chengqi Zhang)

WIC Outstanding Service Award Ceremony (Ning Zhong)

WI'09/IAT'09 Introduction (Pasi Gabriella)

Please gather at Lobby Block B, Building 5, UTS Haymarket Campus at 18:30 for departing to King Street Wharf #5, Darling Harbour. Otherwise please be sure of arriving at King Street Wharf #5, Darling Harbour at 19:00 for boarding (Please bring your banquet ticket).

Friday, December 12, 2008 (Building 5, Haymarket Campus, UTS)

WI/IAT : Invited Talk (09:00 – 9:45)

Chair: Jie Lu

Location: B111

Title: Using Web Clustering for Web Community Mining and Analysis

Speaker: Yanchun Zhang

WI/IAT: Invited Talk (9:45-10:30)

Chair: Lakhmi Jain

Location: B111

Title: Thinking Big - AI at Web Scale

Speaker: Michael Witbrock

Tea/Coffee Break (10:30 – 11:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 12-A-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Bogdan Gabrys

Session Time: 11:00-12:30

Short Papers:

- ◆ *Web User Session Reconstruction Using Integer Programming*, Pablo Enrique Roman, Robert F. Dell, and Juan Domingo Velásquez Silva
- ◆ *Incremental collaborative filtering for binary ratings*, Catarina Miranda and Alipio Jorge
- ◆ *Grasping Major Statements and their Contradictions Toward Information Credibility Analysis of Web Contents*, Daisuke Kawahara, Sadao Kurohashi, and Kentaro Inui
- ◆ *Joint Extraction of Compound Entities and Relationships from Biomedical Literature*, Cartic Ramakrishnan, Pablo Mendes, Rodrigo da Gama, Guilherme Ferreira, and Amit Sheth
- ◆ *Cool Blog Identification using Topic-based Models*, Kritsada Sriphaew, Hiroya Takamura, and Manabu Okumura
- ◆ *A Co-occurrence based Hierarchical Method for Clustering Web Search Results*, Yun Zhang and Boqin Feng
- ◆ *Grouping Categorical Anomalies*, Matthew GebSKI, Alex Penev, and Raymong Wong

Session 12-A-WI-2: Web Agents/ Web Services (Room: B112)

Session Time: 11:00-12:30

1. Web Agents

Session Chair: Ajith Abraham

Short Papers:

- ◆ *Effective Usage of Computational Trust Models in Rational Environments*, Le-Hung Vu and Karl Aberer
- ◆ *An Analytic Approach to Reputation Ranking of Participants in Online Transactions*, Aleksandar Ignjatovic, Norman Foo, and Chung Tong Lee

2. Web Services

Session Chair: Ajith Abraham

Regular Papers:

- ◆ *Scalable Dynamic User Preferences for Recommender Systems through the use of the Well-founded Semantics*, Manoela Ilic, João Leite, and Martin Slota
- ◆ *Quantum Service Selection*, Matthias Klusch and Rene Schubotz
- ◆ *Dynamic Self-Healing for Service Flows with Semantic Web Services*, Wei Ren, Gang Chen, Haifeng Shen, Zhonghua Yang, Jing Bing Zhang, Chor Ping Low, David Chen, and Chengzheng Sun

Short Papers:

- ◆ *An autonomous system designed for automatic detection and rating of film reviews*, Grzegorz Dzikowski and Katarzyna Wegrzyn-Wolska

Session 12-A-WI-3: Intelligent Human-Web Interaction (Room: B113)

Session Chair: Helen Lu

Session Time: 11:00-12:30

Regular Papers:

- ◆ *A Neural-Network-Based Geographic Tendency Visualization*, Hajime Hotta and Masafumi Hagiwara

Short Papers:

- ◆ *Context-Aware Scenarios for Pervasive Long-Life Learning*, Cuong Pham-Nguyen and Serge Garlatti
- ◆ *A Study on the Granularity of User Modeling for Tag Prediction*, Enrique Frias-Martinez, Manuel Cebrian, and Alejandro Jaimés
- ◆ *Visualizing Blogosphere Using Content Based Clusters*, Jing Gao and Wei Lai
- ◆ *A Context-sensitive Approach for Web Database Query Results Ranking*, Xiangfu Meng, Z. M. Ma, Ranran Cheng, and Xing Wang
- ◆ *Learning Classifiers from Large Databases using Statistical Queries*, Neeraj Koul, Vikas Bahirwani, Cornelia Caragea, Doina Caragea, and Vasant Honavar
- ◆ *Evaluation of the Effects of User-Sensitivity on Text Summarization*, Hien Nguyen, Eugene Santos Jr., Jacob Russell, and Nathan Smith

Lunch (12:30 – 14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

Session 12-B-WI-1: Web Mining and Farming (Room: B111)

Session Chair: Peter Herrmann

Session Time: 14:00-15:30

Regular Papers:

- ◆ *Resource Planning Heuristics for Service-oriented Workflows*, Julian Eckert, Deniz Ertogrul, André Miede, Nicolas Repp, and Ralf Steinmetz

Short Papers:

- ◆ *XMiner: Mining XML Mediated Schemas*, Hong-Quang Nguyen, Wenny Rahayu, Kinh Nguyen, and David Taniar
- ◆ *Semantic Patent Clustering for Biomedical Communities*, khaled khelif, Aroua Hedhili, and Martine Collard
- ◆ *Extracting Concept Hierarchy Knowledge from the Web based on Property Inheritance and Aggregation*, Shun Hattori and Katsumi Tanaka
- ◆ *Indexing of Reading Paths for a Structured Information Retrieval on the Web*, Mathias Gery

Session 12-B-WI-2: Web Support Services (Room: B112)

Session Chair: Gabriella Pasi

Session Time: 14:00-15:30

Regular Papers:

- ◆ *SemanticWeb Service Selection at the Process-level: the eBay/Amazon/PayPal Case Study*, Ivan Di Pietro, Francesco Pagliarecci, Luca Spalazzi, Annapaola Marconi, and Marco Pistore
- ◆ *Model-Driven Semantic Web Service Matchmaking for Collaborative Business Processes*, Matthias Klusch, Stefan Nesbigall, and Ingo Zinnikus
- ◆ *hRESTS: an HTML Microformat for Describing RESTful Web Services*, Jacek Kopecky, Karthik Gomadam, and Tomas Vitvar
- ◆ *Abduction and Contraction for Semantic-based Mobile Dating in P2P Environments*, Michele Ruta, Tommaso Di Noia, Eugenio Di Sciascio, and Floriano Scioscia

Short Papers:

- ◆ *Web Page Clustering Using a Fuzzy Logic Based Representation and Self-organizing Maps*, Alberto P. Garcia-Plaza, Victor Fresno, and Raquel Martínez

Session 12-B-WI-3: Intelligent E-Technology (Room: B113)

Session Chair: Yanchang Zhao

Session Time: 14:00-15:30

Regular Papers:

- ◆ *Using Agent's Eagerness and Competition in Automated Bidding Startegy*, Madhu Goyal and Jun Ma
- ◆ *XAL: A Web Oriented Programming Language Based On Timed-Automata*, Salvatore Campana, Luca Spalazzi, and Francesco Spegni
- ◆ *Integrating Metadata Harvesting with Semantic Search*, Darina Dicheva, Christo Dichev, and Petko Valtchev

Short Papers:

- ◆ *Matching and Ranking with Hidden Topics towards Online Contextual Advertising*, Dieu-Thu Le, Cam-Tu Nguyen, Quang-Thuy Ha, Xuan-Hieu Phan, and Susumu Horiguchi
- ◆ *Supporting Customer Searches in e-Marketplaces by means of Fuzzy Logic-based Machine Learning*, J. Albusac, Lorenzo Manuel Lopez-Lopez, J.M. Murillo, and J.J. Castro-Schez

Tea/Coffee Break (15:30-16:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

IAT 2008 Program

Wednesday, December 10, 2008 (Building 5, Haymarket Campus, UTS)

Conference Opening (08:45--09:15)

Chairs: Chengqi Zhang

Location: B111

UTS Welcome: UTS Deputy Vice-Chancellor Prof Sue Rowley

Program: Lakhmi Jain

Housekeeping: Longbing Cao

WI/IAT : Invited Talk (09:15-10:15)

Chair: Chengqi Zhang

Location: B111

Title: Planning for Coordination and Coordination for Planning

Speaker: Edmund H. Durfee

Tea/Coffee Break (10:15-10:45)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 10-A-IAT-5: Autonomy-Oriented Computing (AOC) (Room: C.1.20)

Session Chair: Shih-Fen Cheng

Session Time: 10:45-12:45

Regular Papers:

- ♦ *Emergent Spatial Agent Segregation*, Ken Hawick and Chris Scogings
- ♦ *Pheromone Approach to the Adaptive Discovery of Sensor-Network Topology*, Hiroshi Tamaki, Ken-ichi Fukui, Masayuki Numao, and Satoshi Kurihara
- ♦ *Online vs. Offline Behavior: How to Design Strategic Agents for Distributed Coordinator-Free Environments*, Stephan Schosser, Klemens Böhm, and Bodo Vogt
- ♦ *Finding Minimum Data Requirements Using Pseudo-Independence*, Yoonheui Kim and Victor Lesser
- ♦ *Epidemic Dynamics and Thresholds in Agent-Based Simulations under Realistic Resources and Cost Conditions*, Yu-Shiuan Tsai, Chuen-Tsai Sun, and Chung-Yuan Huang
- ♦ *Toward Quantum Matchmaker Agents*, Matthias Klusch

Session 10-A-IAT-6: Agent Systems Modeling and Methodology (Room: C.1.21)

Session Chair: Yuri Tijerino

Session Time: 10:45-12:45

Regular Papers:

- ♦ *Obligations with deadlines and maintained interdictions in privacy regulation frameworks*, Guillaume Piolle and Yves Demazeau
- ♦ *Introducing Communication in Dis-POMDPs with Locality of Interaction*, Makoto Tasaki, Yuichi Yabu, Yuki Iwanari, Makoto Yokoo, Milind Tambe, Janusz Marecki, and Pradeep Varakantham
- ♦ *Reduction Relations for Agent Models*, Jan Treur
- ♦ *An Agent Memory Model Enabling Rational and Biased Reasoning*, Annerieke Heuvelink, Michel Klein, and Jan Treur
- ♦ *Model-driven Approach to the Integration of Multiagent Systems and Semantic Web Services*, Christian Hahn, Stefan Nesbigall, Stefan Warwas, Ingo Zinnikus, Klaus Fischer, and Matthias Klusch
- ♦ *Formalizing Multi-State Learning Dynamics*, Daniel Hennes, Karl Tuyls, and Matthias Rauterberg

Lunch (12:45-14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

WI/IAT : Invited Talk (14:00-14:45)

Chair: Longbing Cao

Location: B111

Title: Knowledge Based Search Engine: Granular Computing on the Web

Speaker: Tsau Young Lin

WIC feature talk (14:45-15:30)

Chair: Matthias Klusch

Location: B111

Title: Autonomy-Oriented Computing for Web Intelligence and Brain Informatics

Speaker: Jiming Liu

Tea/Coffee Break (15:30-16:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 10-B-IAT-5: Autonomy-Oriented Computing (AOC) (Room: C.1.20)

Session Chair: Alessandro Cucchiarelli

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Privacy Guarantees through Distributed Constraint Satisfaction*, Boi Faltings, Thomas Leaute, and Adrian Petcu

Short Papers:

- ◆ *Model-Driven Engineering of Multi Agent Systems*, Oleg Karsaev, Vladimir Gorodetsky, Victor Konushy, and Vladimir Samoylov
- ◆ *Agent Decision Making for Dynamic Selection of Coordination Mechanisms*, Mattijs Ghijsen, Wouter Jansweijer, and Bob Wielinga
- ◆ *Multi-agent Based Supply Chain Management with Dynamic Reconfiguration Capability*, Zili Zhang and Li Tao
- ◆ *A Normative Model for Behavioral Differentiation*, Benoit Lacroix, Philippe Mathieu, and Andras Kemeny
- ◆ *Open Collaborative Systems as Institutions of Agents*, Marcos De Oliveira, Vasco Furtado, Stephen Cranefield, and Martin Purvis
- ◆ *Designing a Simulation Middleware for FIPA Multiagent Systems*, Arne Schuldt, Jan D. Gehrke, and Sven Werner
- ◆ *An Organisational Multi-Agent Systems Approach for Designing Collaborative Tagging Systems*, Maya Rupert, Carlos Li, and Salima Hassas
- ◆ *Modeling and Verification of Context-awareness Service for Time Critical Applications Using Colored*, SeungWok Han, Sung Keun Song, and Hee Yong Youn
- ◆ *Interaction Selection Ambiguities in Multi-Agent Systems*, Yoann Kubera, Philippe Mathieu, and Sébastien Picault
- ◆ *An Improved Discrete Particle Swarm Optimization Based on Cooperative Swarms*, Yiheng Xu, Qiangwei Wang, and Jinglu Hu

Session 10-B-IAT-6: Agent Systems Modeling and Methodology (Room: C.1.21)

Session Chair: Virginia Dignum

Session Time: 16:00-18:00

Regular Papers:

- ◆ *Generic Protocol Configuration and Execution within a Coalition*, Jose Ghislain Quenum
- ◆ *An Information-Theoretic Approach to Model Identification in Interactive Influence Diagrams*, Yifeng Zeng and Prashant Doshi
- ◆ *Planning with iFALCON: Towards A Neural-Network-Based BDI Agent Architecture*, Budhitama Subagdja and Ah Hwee Tan
- ◆ *Evolving Logic Programming based Agents with Temporal Operators*, José Alferes, Alfredo Gabaldon, and João Leite
- ◆ *Ethical Trust and Social Moral Norms Simulation: A bio-inspired agent-based modelling approach*, Hock Chuan Lim, Rob Stocker, and Henry Larkin
- ◆ *Negotiation in Semi-Cooperative Agreement Problems*, Elisabeth Crawford and Manuela Veloso

Reception (18:00-20:00)

Location: Lobby, Block C, Building 5, Haymarket Campus, UTS

Thursday, December 11, 2008 (Building 5, Haymarket Campus, UTS)

WI/IAT : Invited Talk (09:00 – 10:00)

Chair: Boi Falting

Location: B111

Title: The Emergence of Web Science

Speaker: Nigel Shadbolt

Tea/Coffee Break (10:00 – 10:30)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 11-A-IAT-5: Autonomous Knowledge and Information Agents (Room: C.1.20)

Session Chair: Zili Zhang

Session Time: 10:30-12:30

Regular Papers:

- ◆ *Structured Learning of Component Dependencies in AmI Systems*, Todor Dimitrov, Josef Pauli, Edwin Naroska, and Christian Ressel
- ◆ *A Personalized Spam Filtering Approach Utilizing Two Separately Trained Filters*, Wei-Lun Teng and Wei-Chung Teng

Short Papers:

- ◆ *Behavior Prediction based on Obstacle Motion Patterns in Dynamically Changing Environments*, Zhuo Chen, Chi Kit Ngai, and Hon Ching Yung
- ◆ *Team-RPD: A Collaborative Model of the Recognition-Primed Decision Process*, Xiaocong Fan and John Yen
- ◆ *Software Agents Mediated Interoperability among Heterogeneous Semantic Services*, Naeem Khalid, Hafiz Farooq Ahamd, and Hiroki Suguri
- ◆ *An Adaptive Multi-agent System for Continuous Learning of Streaming Data*, Igor Kiselev and Reda Alhajj
- ◆ *A Computer Simulation Laboratory for Social Theories*, Joseph Whitmeyer, Ted Carmichael, Chris Eichelberger, Mirsad Hadzikadic, Moutaz Khouja, Amar Saric, and Min Sun
- ◆ *In Search of Optimum Possible Organizations through Agent Modeling -Business Environment Recognition Models*, Masahiro Toriyama, Takamasa Kikuchi, Yuji Nakagawa, Takashi Yamada, and Takao Terano
- ◆ *Emergence of Sharing Behavior in a Multi-agent Society using Tags*, Sharmila Savarimuthu, Maryam Purvis, and Martin Purvis
- ◆ *Dynamic Reassigned Tasks during the Negotiation Process by Ontology Approach between Mobile Agents*, Saad Sawsan, Hayfa Zgaya, and Slim Hammadi

Session 11-A-IAT-6: Agent Systems Modeling and Methodology (Room: C.1.21)

Session Chair: Boi Faltings

Session Time: 10:30-12:30

Regular Papers:

- ◆ *The Network Game: Analyzing Network-Formation and Interaction Strategies in Tandem*, Bjoern-Oliver Hartmann, Klemens Böhm, and Bodo Vogt

Short Papers:

- ◆ *An Agent Architecture for an Uncertain World*, John Debenham and Carles Sierra
- ◆ *Distributed Private Constraint Optimization*, Prashant Doshi, Toshihiro Matsui, Marius Silaghi, Makoto Yokoo, and Markus Zanker
- ◆ *Adapting to Changing Resource Requirements for Coalition Formation in Self-Organized Social Networks*, Levi Barton and Vicki Allan
- ◆ *Multiagent Technology Solutions for Planning in Ambient Intelligence*, Nicola Gatti, Francesco Amigoni, and Marco Rolando
- ◆ *An Ambient Intelligent Agent with Awareness of Human Task Execution*, Fiemke Both, Mark Hoogendoorn, Andy van der Mee, and Michael de Vos
- ◆ *when the user is instrumental to robot goals: first try - agent uses agent*, Johan Hoorn, Matthijs Pontier, and Ghazanfar Farooq

Siddiqui

- ◆ *An Agent Model for a Human's Functional State and Performance*, Tibor Bosse, Fiemke Both, Rianne van Lambalgen, and Jan Treur
- ◆ *Cognitive and Biological Agent Models for Emotion Reading*, Zulfiqar Memon and Jan Treur
- ◆ *Arguing About Recommendations in Social Networks*, Stella Heras, Miguel Rebollo, and Vicente Julian

Lunch (12:30 – 14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

WI/IAT : Invited Talk (14:00-15:00)

Chair: Nigel Shadbolt

Location: B111

Title: The Language Grid: Service-Oriented Collective Intelligence for Intercultural Collaboration

Speaker: Toru Ishida

Tea/Coffee Break (15:00-15:30)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 11-B-IAT-5: Distributed Problem Solving (Room: C.1.20)

Session Chair: Mark Hoogendoorn

Session Time: 15:30-17:30

Regular Papers:

- ◆ *Collaborative Resource Constraint Scheduling with a Fractional Shared Resource*, Gaurav Singh and Rene Weiskircher
- ◆ *Robust Scheduling and Runtime Adaptation of Multi-agent Plan Execution*, Mingzhong Wang, Kotagiri Ramamohanarao, and Jinjun Chen
- ◆ *Distributing complementary resources across multiple periods with stochastic demand: Hedging via time frame aggregation*, Shih-Fen Cheng, John Tajan, and Hoong Chuin Lau

Short Papers:

- ◆ *Constant cost of the computation-unit in efficiency graphs for DCOPs*, Marius Silaghi, Rob Lass, Evan Sultanik, William Regli, Toshihiro Matsui, and Makoto Yokoo
- ◆ *ELM-based Agents for Grid Resource Selection*, Guopeng Zhao, Zhigi Shen, N.A. Ailiya, and Chunyan Miao
- ◆ *A Ring-Based Decentralized Collaborative Non-Blocking Atomic Commit Protocol*, Chun-Yao Wang and Daniel Buehrer
- ◆ *Decentralized Co-Allocation of Interrelated Resources in Dynamic Environments*, Tino Schlegel, Ryszard Kowalczyk, and Bao Quoc Vo
- ◆ *Intent-driven insider threat detection in intelligence analyses*, Eugene Santos Jr., Hien Nguyen, Fei Yu, Keumjoo Kim, Deqing Li, John Wilkinson, Adam Olson, and Jacob Russell

Session 11-B-IAT-6: Agent Systems Modeling and Methodology (Room: C.1.21)

Session Chair: Frank Dignum

Session Time: 15:30-17:30

Regular Papers:

- ◆ *Multi-Layer Bayesian Network for Variable-Bound Inference*, Shizhuo Zhu, Po-Chun Chen, and John Yen
- ◆ *Goal-Directed Interactions in Artifact-Based MAS: Jadex Agents playing in CARTAGO Environments*, Michele Piunti, Alessandro Ricci, Lars Braubach, and Alexander Pokahr
- ◆ *Extending Agent Capabilities: Tools vs. Agents*, Daghan L. Acay, Gil Tidhar, and Liz Sonenberg

Short Papers:

- ◆ *Cognitive Agents Integrating Rules and Reinforcement Learning for Context-Aware Decision Support*, Teck-Hou Teng and Ah Hwee Tan
- ◆ *Learning-Rate Adjusting Q-learning for Prisoner's Dilemma Games*, Koichi Moriyama
- ◆ *Scaling up Multi-Agent Reinforcement Learning in Complex Domains*, Dan Xiao and Ah Hwee Tan
- ◆ *Relating Cognitive Process Models to Behavioural Models of Agents*, Alexei Sharpanskykh and Jan Treur
- ◆ *Constructing Optimal Fuzzy Metric Trees for Agent Performance Evaluation*, Christos Dimou, Manolis Falelakis, Andreas Symeonidis, Anastasios Delopoulos, and Pericles Mitkas
- ◆ *An Information-Theoretic Class of Stochastic Decision Processes*, Kazunori Iwata

Banquet/Award Ceremony (18.30:00-22:00)

Location: Showboat Cruise Dinner, King Street Wharf #5, Darling Harbour
Best Paper Awards Ceremony (Lakhmi Jain and Chengqi Zhang)
WIC Outstanding Service Award Ceremony (Ning Zhong)
WI'09/IAT'09 Introduction (Pasi Gabriella)

Please gather at Lobby Block B, Building 5, UTS Haymarket Campus at 18:30 for departing to King Street Wharf #5, Darling Harbour. Otherwise please be sure of arriving at King Street Wharf #5, Darling Harbour at 19:00 for boarding (Please bring your banquet ticket).

Friday, December 12, 2008 (Building 5, Haymarket Campus, UTS)

WI/IAT : Invited Talk (09:00 – 9:45)

Chair: Jie Lu

Location: B111

Title: Using Web Clustering for Web Community Mining and Analysis

Speaker: Yanchun Zhang

WI/IAT: Invited Talk (9:45-10:30)

Chair: Lakhmi Jain

Location: B111

Title: Thinking Big - AI at Web Scale

Speaker: Michael Witbrock

Tea/Coffee Break (10:30 – 11:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

Session 12-A-IAT-4: Autonomous Auctions and Negotiation (Room: C.1.19)

Session Chair: Chayapol Moemeng

Session Time: 11:00-12:30

Regular Papers:

- ◆ *Keyword Auction Protocol for Dynamically Adjusting the Number of Advertisements*, Yuko Sakurai, Atsushi Iwasaki, and Makoto Yokoo
- ◆ *Beyond quasi-linear utility: strategy/false-name-proof multi-unit auction protocols*, Yuko Sakurai, Yasumasa Saito, Atsushi Iwasaki, and Makoto Yokoo
- ◆ *Non-symmetric Preferences in the IPA Market with Reinforcement Learning*, Eduardo Rodrigues Gomes and Ryszard Kowalczyk

Short Papers:

- ◆ *Bargaining in Markets with One-Sided Competition: Model and Analysis*, Nicola Gatti
- ◆ *Auction Analysis by Normal Form Game Approximation*, Michael Kaisers, Karl Tuyls, Frank Thuijsman, and Simon Parsons
- ◆ *New Mechanisms for Mixing Time- and Behaviour-Dependent Tactics in Negotiation Strategies*, Jan Richter and Ryszard Kowalczyk

Session 12-A-IAT-5: MAS Applications (Room: C.1.20)

Session Chair: Vladimir Gorodetsky

Session Time: 14:00-15:30

Regular Papers:

- ◆ *An Analysis of Entries in the First TAC Market Design Competition*, Jinzhong Niu, Kai Cai, Peter McBurney, and Simon Parsons
- ◆ *A Cooperative Multi-Agent Approach to Computer Forensics*, Bruno Hoelz, Celia Ralha, Rajiv Geeverghese, and Hugo Junior

Short Papers:

- ◆ *A Large-Scale Evaluation of an E-Mail Management Assistant*, Wayne Wobeke, Alfred Krzywicki, and Yiu-Wa (Rita) Chan
- ◆ *Intelligent Service System: An Agent-based Approach for integrating Artificial Intelligence components in SOA landscapes*, Michel Alessandrini, Manfred Wolfram Lippe, and Wilhelm Nuesser
- ◆ *Integration of intelligent agents supporting automatic service composition in Ambient Intelligence*, Maria Jose Santofimia Romero, Francisco Moya Fernández, Felix Jesus Villanueva Molina, David Villa Alises, and Juan Carlos Lopez Lopez
- ◆ *The Role of Blackboard-based Reasoning and Visual Analytics in RESIN's Predictive Analysis*, Dingxiang Liu, Jia Yue, Xiaoyu Wang, Anita Raja, and William Ribarsky

Lunch (12:30 – 14:00)

Location: China Grant Restaurant, Level 3, Market City, China Town

Session 12-B-IAT-4: MAS Applications (Room: C.1.19)

Session Chair: Hien Nguyen

Session Time: 14:00-15:30

Regular Papers:

- ◆ *Development of Virtual Agents with a Theory of Emotion Regulation*, Tibor Bosse and Frank de Lange
- ◆ *Comparison of Agent-Based and Population-Based Simulations of Displacement of Crime*, Tibor Bosse, Charlotte Gerritsen, Mark Hoogendoorn, Waqar Jaffry, and Jan Treur
- ◆ *Embodiment of an Agent by Anthropomorphization of a Common Object*, Hirotaka Osawa, Ren Ohmura, and Michita Imai

Short Papers:

- ◆ *Ontology-based Business Activity Monitoring Agent*, Duco Ferro, Mark Hoogendoorn, and Catholijn Jonker
- ◆ *A Game-Theoretic Approach to Determining Efficient Patrolling Strategies for Mobile Robots*, Francesco Amigoni, Nicola Gatti, and Antonio Ippedico

Session 12-B-IAT-5: Others (Room: C.1.20)

Session Chair: Marcin Szczuka

Session Time: 14:00-15:30

Regular Papers:

- ◆ *Integrating Partial Models of Network Normality via Cooperative Negotiation: An Approach to Develop*, Francesco Amigoni, Fabrizio Basilico, Nicola Basilico, and Stefano Zanero
- ◆ *How can agents know what to assume when?*, Georgios K. Giannikis and Aspasia Daskalopulu
- ◆ *A Collaborative Reinforcement Learning Approach to Urban Traffic Control Optimization*, As'ad Salkham, Raymond Cunningham, Anurag Garg, and Vinny Cahill

Short Papers:

- ◆ *FeGA: a Feedback-Generating Agent*, Annerieke Heuvelink and Tina Mioch
- ◆ *An Ontology-Driven Framework for Deploying JADE Agent Systems*, Csongor Nyulas, Martin O'Connor, Samson Tu, David Buckeridge, Anna Okhmatovskaia, and Mark Musen
- ◆ *Service Interoperability between Agents and Semantic Web Services for Nomadic Environment*, Adeel Shajjar, Naeem Khalid, Hafiz Farooq Ahmed, and Hiroki Suguri

Tea/Coffee Break (15:30-16:00)

Location: Lobby, Block B, Building 5, Haymarket Campus, UTS

WI'08/IAT'08 Invited Talks

Title: Planning for Coordination and Coordination for Planning

PROFESSOR EDMUND H. DURFEE

EECS Department, University of Michigan, USA

Abstract

Except in very controlled or fortuitous circumstances, good coordination between agents does not spontaneously occur. In general, agents need to plan for coordination, anticipating how their activities can affect each other and choosing actions that dovetail well together to achieve their separate and common goals. Of course, this is easier said than done, since the potential space of agents' action and interaction sequences to consider is intractable. In this talk, I will discuss some technologies that make it practical to plan for good coordination by exploiting algorithmic, representational, and problem-specific structure. Furthermore, when conducted by the involved agents, the processes for planning coordination need to be coordinated themselves. Toward this end, I will also discuss meta-level strategies for coordinating the agents' planning processes.

Biography

Ed Durfee is a Professor of Computer Science and Engineering, and of Information, at the University of Michigan, where he has been on the faculty since 1988. Prior to that, he did his undergraduate work at Harvard University, and his doctoral work at the University of Massachusetts under the supervision of Victor Lesser. While on the faculty at Michigan, he has also held visiting appointments during sabbaticals at Hebrew University (Israel) and at the University of Fort Hare and Rhodes University (South Africa).

Ed develops and studies computational mechanisms for planning and coordinating the activities of sophisticated, autonomous computational agents that adjust their behaviors to achieve their individual or collective objectives in time-critical environments. He has pioneered the use of distributed planning and constraint satisfaction techniques for coordinating agents that must work together to satisfy system requirements, and has led projects that employ these techniques in applications such as reconnaissance by unmanned vehicles, information gathering in digital libraries, and delegating command and control tasks to computational agents in reduced-crewsize ships. For applications where agents are not fully cooperative, such as military coalition control, he and his students have developed a framework for coordination based on selective elaboration and commitment within hierarchical plan specifications. For applications in stochastic settings, he and his students have devised techniques based on Markov Decision Processes to solve complex problems involving resource allocation and utilization planning among multiple agents.

He received a Presidential Young Investigator award in 1991, and is a Fellow of the IEEE and of the American Association of Artificial Intelligence. He has been chair or co-chair for over 15 completed doctorates, teaches courses in artificial intelligence and computer programming topics, and has been instrumental in making sweeping improvements to the undergraduate programs offered by his department. He is an associate editor for the Journal of Artificial Intelligence Research (JAIR) and the International Journal of Autonomous Agents and Multi-Agent Systems, treasurer of the International Foundation for Autonomous Agents and Multi-Agent Systems, and has served on many conference program committees, including being conference co-chair for the 2008 International Joint Conference on Autonomous Agents and MultiAgent Systems.

Title: Knowledge Based Search Engine: Granular Computing on the Web

PROFESSOR TSAU YOUNG LIN

Department of Computer Science, San Jose State University, USA

Abstract

Web has fundamentally changed the nature of human life in modern society. The accelerated growth of web constantly prompts for new ideas and technologies. A mere retrieval of relevant web pages no longer adequately meets the needs. For example, a Google search on “T. Y. Lin,” returns nearly millions items. With such an amount, it is not feasible to isolate/identify the desirable item or items manually. Google’s ranking is a good idea, but its ranking does not necessary fit all purposes..

New fresh look at the problems are needed. Among others, “semantic web” and “web intelligence” have been standing out. From the surfaces, the term, semantic web, is to add the semantics into the current web structure, whereas web intelligence is to add intelligence computing into the web queries. In summary, both are aiming to have more meaningful returns.

In this talk, we will explain the general idea of search engine, survey current practices and discuss some on going web related projects.

Biography

Tsau Young (T. Y.) Lin received his Ph.D. from Yale University, and is a professor of Computer Science at San Jose State University and a fellow in Berkeley Initiative in Soft Computing (BISC), University of California. He is the President of International Granular Computing Society , Founding Chair of Special Interest Group of Granular Computing in BISC, the Founding President of International Rough Set Society, also had been the Chapter Chair of IEEE-Computer Society in Silicon Valley.

He shares the editor-in-Chief with Tony Xiaohua Hu for the International Journal of Granular Computing, Rough Sets and Intelligent Systems. He has/had served as Editor-in-Chief, associate editors, members of advisory/editorial board in several reputable international journals, such as Theoretical Computer Sciences (Chinese), Knowledge Discovery in Database, Knowledge and Information Systems, Data Mining and Bioinformatics, and Machine Automation and Soft Computing. He had served as

(co-)chairs, and members of program committees of many conferences and workshops in the areas of data mining, computer security, rough sets, granular computing and etc.

He also serves advisory board, panelist and etc on some government agencies.

He has a wide spectrum of interests that includes approximate retrievals and reasoning, data, text and web mining, data security, data warehouse and novel computing methodologies (e.g., granular, rough, Petry net, and soft computing). He received the best contribution awards from ICDM01 and International Rough Set Society (2005), and a pioneer award from GrC 2008.

His current activities center around granular computing, and its to web technology. In fact, he is responsible for coining the term granular computing (GrC) . In GrC, he introduced a category based GrC model. Depending on the choices of categories, he has develop 8 models and various theories and applications. The applications range from automata to webpages. In the category of Turing machines , treating finite automata as granules (Seventh GrC Model), then any patterns (low complexity Turing machines) can be approximated probabilistically by finite automata. These approximations have been used to identify authorships of articles, books or programs; the last one leads to intrusion detection systems. In the category of binary pre-topological spaces (toe pre-topology is derived from a binary relation), Discretionary Access Models and uncertainty principle in quantum mechanics have been model by Third GrC Models. In the category of sets there are six models. The Second GrC model includes an “ancient” geometric structure, called simplicial complexes (of combinatorial topology) . It is some what a surprise, he found that the concepts hidden in a set of webpages can be represented by such a simplicial complex, By regarding such a simplicial complex as a geometric knowledge base that carries the hidden semantics of webpages, web pages can be clustered semantically and hence search semantically.

He is also interested in many other areas, such as the foundation of data mining and fast computing of association rules.

Title: The Emergence of Web Science

PROFESSOR NIGEL SHADBOLT

School of Electronics and Computer Science, University of Southampton, United Kingdom

Abstract

There is a growing realization among many researchers that if we want to model the Web and understand its future trajectory; if we want to understand the architectural principles that have provided for its growth; and if we want to be sure that it supports the basic social values of trustworthiness, privacy, and respect for social boundaries, then we must chart out a research agenda that targets the Web as a primary focus of attention. This is Web Science and this invited talk will discuss the emergence of this exciting new discipline.

Biography

Nigel Shadbolt is a Professor of Artificial Intelligence in the School of Electronics and Computer Science (ECS) at the University of Southampton. He is also Deputy Head (Research). His research concentrates on two ends of the spectrum of AI - namely, Knowledge Technologies and Biorobotics.

In its 50th Anniversary year 2006 - 07, Nigel was President of the British Computer Society. He is a Fellow of both the Royal Academy of Engineering and the British Computer Society.

Between 2000 and 2007, he was the Director of the £7.5m EPSRC Interdisciplinary Research Collaboration in Advanced Knowledge Technologies (AKT). AKT was particularly influential in establishing the viability and value of web-based semantic technologies. He has recently been awarded a further £2.3m by the EPSRC to build on this work. He is the Chief Technology Officer of Garlik, a company formed to exploit semantic web technology to enhance consumers' and citizens' privacy. He is also a founding director of the Web Science Research Initiative (WSRI).

From 2001 to 2004 he was Editor in Chief of IEEE Intelligent Systems and in 2005 he was appointed Emeritus Editor in Chief. He is also a Fellow of the European AI Association (ECCAI)

Title: The Language Grid: Service-Oriented Collective Intelligence for Intercultural Collaboration

PROFESSOR TORU ISHIDA

Department of Social Informatics, Kyoto University, Japan

Abstract

To increase the accessibility and usability of online language services, this talk explains the Language Grid, which facilitates the creation of composite language services for various intercultural collaboration activities. The Language Grid is an initiative to build an infrastructure that allows end users to create new language services for their intercultural / multilingual activities. To this end, language resources (including data and programs) are wrapped as web services so that users can easily combine these services to create workflows that suit their own activities. Thus, the Language Grid can be seen as collective intelligence based on language services. The Language Grid is called “horizontal,” when the grid connects standard languages, or “vertical,” when the grid combines the language services generated by communities.

There are four types of stakeholders in the Language Grid: Language Resource Provider, Computation Resource Provider, Language Service User, and Language Grid Operator (who coordinates the other stakeholders). Though there can be various operation models for the Language Grid, we propose a non-profit operation model in this talk. This model limits the usage of language services solely to non-profit operations, tries to match the incentives of stakeholders, and manages various issues associated with intellectual property rights, user privacy, and operation costs.

Fundamental software for the Language Grid has been developed at NICT from April 2006. Non-profit Language Grid has been operated by Department of Social Informatics, Kyoto University from December 2008. Various types of application activities are ongoing at the Language Grid Association, a user group of the Language Grid: NPOs and universities collaboratively support intercultural collaboration in hospitals, schools, and so on. This talk provides scenarios for several domains by using the Language Grid as a collective intelligence platform. We also started the Service Computing Playground, which is available for universities to educate service computing through using atomic and composite language services registered at the Language Grid.

Related papers

- ◆ Toru Ishida, Akiyo Nadamoto, Yohei Murakami, Rieko Inaba, Tomohiro Shigenobu, Shigeo Matsubara, Hiromitsu Hattori, Yoko Kubota, Takao Nakaguchi, and Eri Tsunokawa. *A Non-Profit Operation Model for the Language Grid*. The First International Conference on Global Interoperability for Language Resources (ICGL-08), pp. 114-121, 2008.
- ◆ Toru Ishida, Susan R. Fussell and Piek TJM Vossen Eds. *Intercultural Collaboration*, Lecture Notes in Computer Science, 4568, Springer-Verlag, 2008.
- ◆ Toru Ishida. *Communicating Culture*. IEEE Intelligent Systems, Special Issue on the Future of AI, Vol. 21, No. 3, pp. 62-63, 2006.
- ◆ Naomi Yamashita and Toru Ishida. *Effects of Machine Translation on Collaborative Work*. International Conference on Computer Supported Cooperative Work (CSCW-06), pp. 515-523, 2006.
- ◆ Ahlem Ben Hassine, Matsubara Shigeo and Toru Ishida. *Constraint-based Approach for Web Service Composition*. International Semantic Web Conference (ISWC-06), pp. 130-143, 2006.
- ◆ Toru Ishida. *Language Grid: An Infrastructure for Intercultural Collaboration*. IEEE/IPSJ Symposium on Applications and the Internet (SAINT-06), pp. 96-100, keynote address, 2006.

Biography

Toru Ishida is a professor of Department of Social Informatics, Kyoto University and a leader of the NICT Language Grid Project.

Until 1993, he was a research scientist of NTT Laboratories. He spent some time at Department of Computer Science, Columbia University, Institut fuer Informatik, Technische Universitaet Muenchen, Le Laboratoire d'Informatique, Universite Pierre et Marie Curie, and Institute for Advanced Computer Studies of University of Maryland, Shanghai Jiao Tong University, Computer Science and Technology Department of Tsinghua University as a visiting scholar/professor. He is an IEEE fellow from 2002.

He has been working on autonomous agents and multiagent systems for twenty years. He also studies social informatics and is running research projects related to digital cities and intercultural collaboration.

His professional services include an associate editor of IEEE Transactions on Pattern Analysis and Machine Intelligence, an associate editor of Journal of Autonomous Agents and Multi-Agent Systems, a

co-editor in chief of Elsevier Journal on Web Semantics, a program co-chair of International Conference on Multiagent Systems (ICMAS'96), and a general co-chair of the first international conference on Autonomous Agents and Multi-Agent Systems (AAMAS'02).

Title: Using Web Clustering for Web Community Mining and Analysis

PROFESSOR YANCHUN ZHANG

Centre for Applied Informatics Research, Victoria University, Australia

Abstract

Due to the inherent correlation among Web objects and the lack of a uniform schema of web documents, Web community mining and analysis has become an important area for Web data management and analysis. The research of Web communities spans a number of research domains such as Web mining, Web search, clustering and text retrieval. In this talk we will present some recent studies on this topic, which cover finding relevant Web pages based on linkage information, discovering user access patterns through analyzing Web log files, co-clustering Web objects and investigating social networks from Web data. The algorithmic issues and related experimental studies will be addressed. Some research directions are also to be discussed.

Keywords: Web Communities, Web Mining, Clustering, Social Network Analysis

Biography

Yanchun Zhang is a full Professor of Computer Science and Director of Centre for Applied Informatics Research at Victoria University. Dr Zhang obtained a PhD degree in Computer Science from The University of Queensland in 1991. Prof. Zhang' research interests include databases, cooperative transactions management, web information systems, web mining, web services and e-research. He has published over 160 research papers in international journals and conference proceedings including top journals such as ACM Transactions on Computer and Human Interaction (TOCHI), IEEE Transactions on Knowledge and Data Engineering (TKDE), and a dozen of books and journal special issues in the related areas. Dr. Zhang is a founding editor and editor-in-chief of World Wide Web and the founding editor of Web Information Systems Engineering and Internet Technologies Book Series from Springer. He is Chairman of International Web information Systems Engineering Society (WISE). He is currently a member of Australian Research Council's College of Experts.

Title: Thinking Big - AI at Web Scale

DR. MICHAEL WITBROCK

The Vice President for Research at Cycorp, Inc. and CEO of Cycorp Europe

Abstract

The true promise of the Web can't be realised by the lone programmers and simple applications of Web 1.0; it can't even be realized by the advanced interfaces and hordes of contributing users of Web 2.0 - it can be realised by individuals and groups of humans collaborating with individual and cloud connected computers. That's Web 2.0. What will it take to make computers into effective collaborators? It will take heterogeneous, ubiquitous reasoning at massive scale - the aim of the EU funded LarKC project; It will take semantically rich shared representations - the aim of OpenCyc (and other, linked projects); it will take more sophisticated reasoning, including probabilistic and contextual reasoning, and it will take sophisticated, social, human-computer and computer-interfaces. In this talk, I'll focus on Cycorp Europe and our effort in the LarKC project, and describe how we hope it will start to tie our work, and the work of others, together to produce a truly knowledgeable, collaborative, intelligent Web.

Biography

Dr. Michael Witbrock serves as the Vice President for Research at Cycorp, Inc. and as CEO of Cycorp Europe. At Cycorp, he has overall responsibility for corporate research, and is particularly interested in automating the process of knowledge acquisition and elaboration, extending the range of knowledge representation and reasoning to mixed logical and probabilistic representations, and in validating and elaborating knowledge in the context of task performance, particularly in tasks that involve understanding text and communicating with users. Michael received his PhD in Computer Science from Carnegie Mellon in 1996 and a BSc in Psychology from Otago University, in New Zealand, in 1985. Prior to joining Cycorp, he was Principal Scientist at Terra Lycos, working on integrating statistical and knowledge based approaches to understanding web user behavior; a research scientist at Just Systems Pittsburgh Research Center, working on statistical text summarization; and a systems scientist at Carnegie Mellon on the Infromedia spoken and video document information retrieval project. He is author of numerous publications in areas ranging across knowledge representation and acquisition, neural networks, parallel computer architecture, multimedia information retrieval, web browser design, genetic design, computational linguistics and speech recognition, and is the holder of four US patents.

WIC Feature Talk

Title: Autonomy-Oriented Computing for Web Intelligence and Brain Informatics

PROFESSOR JIMING LIU

Hong Kong Baptist University, Hong Kong

Abstract

In this talk, we will discuss the roles and potential implications of Autonomy-Oriented Computing (AOC) in/to the future of Web Intelligence (WI) and Brain Informatics (BI). Generally speaking, AOC is a methodology for self-organized computing that is well suited for two types of applications: (i) to characterize the working mechanisms that lead to certain emergent behavior in natural and artificial complex systems (e.g., phenomena in “Web Science”, and the dynamics of social networks and neural systems), and (ii) to develop solutions to large-scale, distributed computational problems (e.g., distributed scalable scientific or social computing, and collective intelligence). AOC emphasizes the modeling of autonomous entities or agents that locally interact following certain nature or real-world inspired behavioral rules, resulting in some self-organized behavior of the entities and/or their nonlinearly aggregated effects. Computing based on interacting entities and their self-organization can offer several means as well as advantages for WI and BI development, such as natural formulation, distributed implementation, scalable performance, robustness, and behavioral or first-principle understanding.

Biography

Jiming Liu is Professor and Head of Computer Science Department at Hong Kong Baptist University (HKBU). Prof. Liu received B.Sc. from East China Normal University, M.A. from Concordia University, and M.Eng. and Ph.D. from McGill University. Prof. Liu’s research interests include: Autonomy-Oriented Computing (AOC), Web Intelligence (WI), Self-Organizing Systems and Networks, Autonomous Agents and Multi-Agent Systems (AAMAS), and Robotics. Prof. Liu has contributed to the scientific literature in those areas, including authored research monographs, e.g., *Autonomy Oriented Computing: From Problem Solving to Complex Systems Modeling* (Kluwer Academic/Springer), *Spatial Reasoning and Planning: Geometry, Mechanism, and Motion* (Springer), *Multi-Agent Robotic Systems* (CRC Press), and *Autonomous Agents and Multi-Agent Systems: Explorations in Learning, Self-Organization and Adaptive Computation* (World Scientific). Prof. Liu has served academic and professional communities in various capacities, e.g., presently as Editor-in-Chief of *Web Intelligence and Agent Systems*, and Associate Editor and Editorial Board Member of several international journals.

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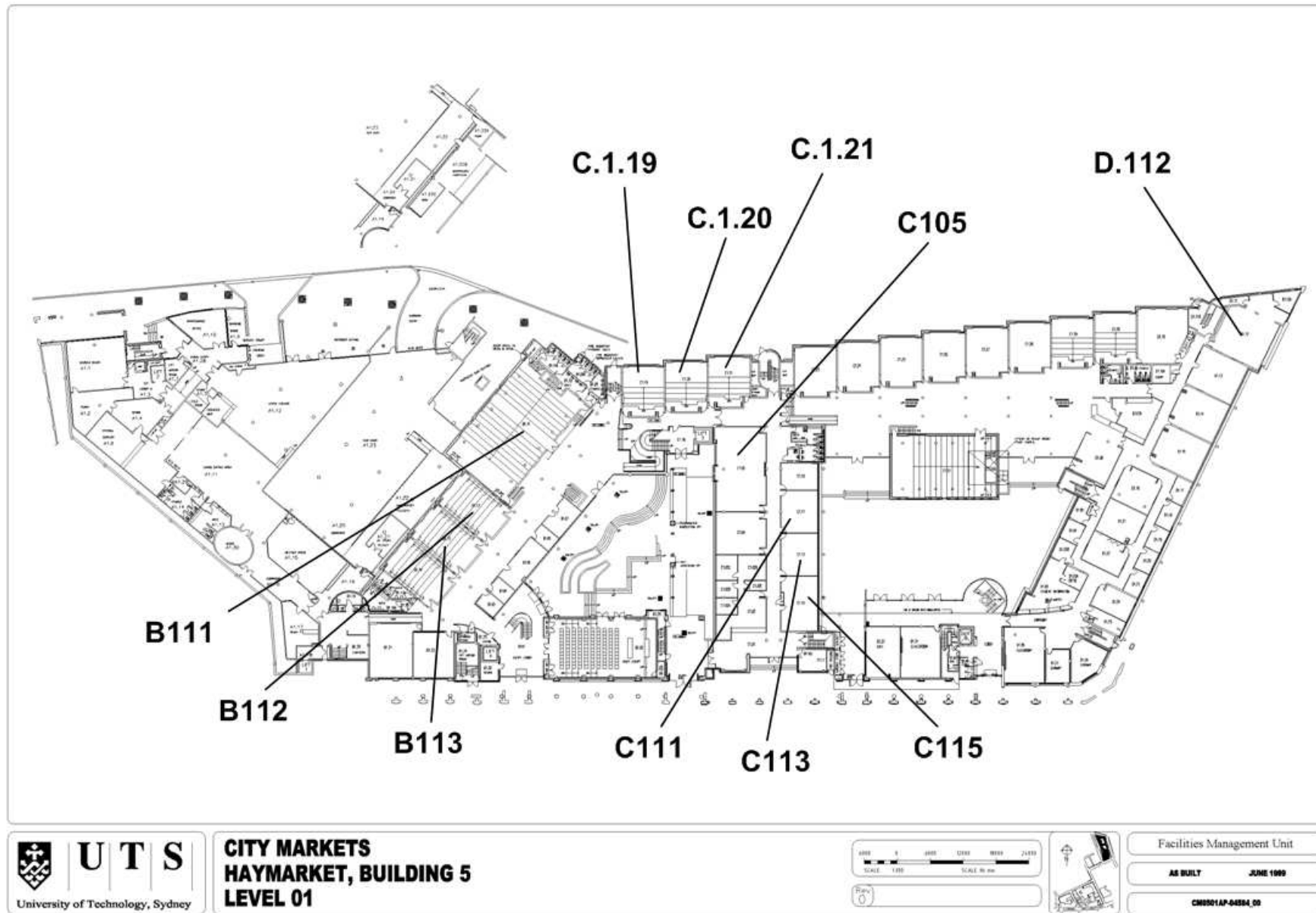
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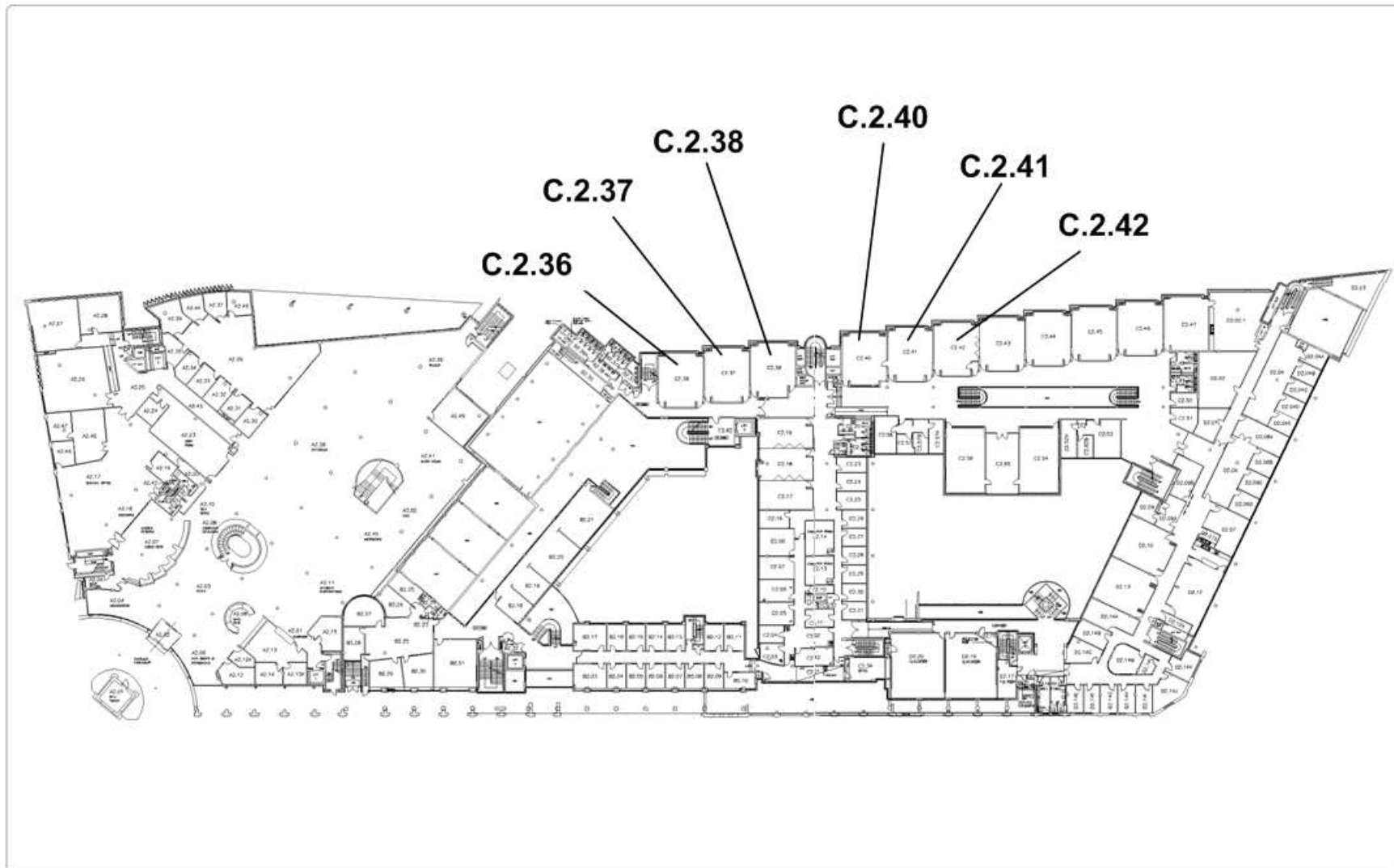
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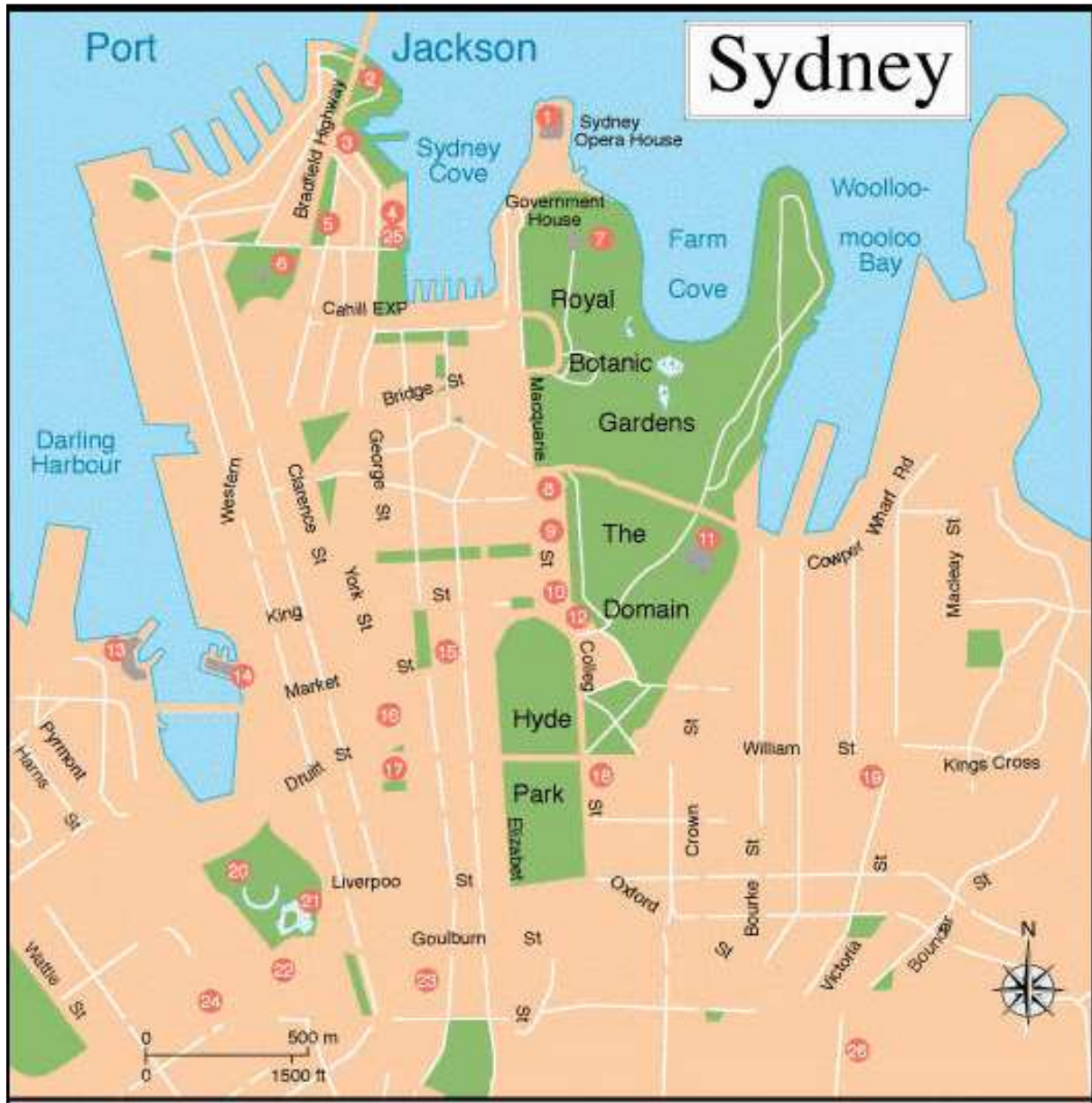


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