


# CURRICULUM VITAE

Dr Wei Liu

Lecturer

School of Computer Science and Software Engineering  
The University of Western Australia, Perth

## 1. PERSONAL DETAILS

<b>Family Name:</b>	Liu	<b>Given Name:</b>	Wei	
<b>Health:</b>	Excellent	<b>Residence Status:</b>	Australian Citizen	

## 2. EDUCATION

1998.09 2002.08	–	PhD research candidate in Information Technology, Department of Information Systems, School of Management, <i>The University of Newcastle, Newcastle, Australia</i> . PhD thesis submitted in August 2002, degree awarded in August 2003.
1998.02 1998.08	-	PhD research candidate in Electrical and Computer Engineering, School of Electrical Engineering, <i>The University of New South Wales, Sydney, Australia</i> . Transferred to the University of Newcastle at the end of August 1998.
1993.09 1996.05	–	M.Eng. Candidate in Power Engineering, School of Power Engineering, <i>Huazhong University of Science and Technology (HUST), Wuhan, China</i> . Degree awarded in May 1996.
1989.09 1993.07	-	B.Eng. Candidate in Power Engineering, School of Power Engineering, <i>Huazhong University of Science and Technology (HUST), Wuhan, China</i> . Degree awarded in July 1993.

## 3. WORKING EXPERIENCE

<i>Duration</i>		<i>University/Company</i>	<i>Position</i>
2004.02 present	–	School of Computer Science and Software Engineering, The University of Western Australia, Australia	Lecturer (Tenure)
2003.02 2004.02	–	School of Computer Science and Software Engineering, The University of Western	Associate Lecturer (Tenure)

		Australia, Australia	
2003.01	–	School of Computer Science and Information	Lecturer

2003.02		Technology, RMIT University, City Campus, Australia	(Tenure)
2002.01 2003.01	–	School of Computer Science and Information Technology, RMIT University, City Campus, Australia	Associate Lecturer (Tenure)
2000.07 2001.12	–	School of Computer Science and Information Technology, RMIT University, City Campus, Australia	Associate Lecturer (Sessional)
1998.09 2000.06	–	Department of Information Systems, School of Management, University of Newcastle, NSW, Australia	PhD Research Candidate Teaching Assistant
1998.02 1998.08	–	School of Electrical Engineering, University of New South Wales, Australia	PhD Research Candidate Teaching Assistant

#### 4. **QUALIFICATIONS**

Academic	Doctor of Philosophy (Ph.D.) in the Newcastle Business School, Faculty of Business and Law, The University of Newcastle, Australia, August, 2003
	Master of Engineering, HUST, China, May 1996
	Bachelor of Engineering, HUST, China, July 1993
Professional	Electrical & Computer Engineer, Since August 1997
Other Qualifications	Business English Certificate 2, University of Cambridge Local Examinations Syndicate, Grade A, May 1995
	TOEFL, 613, Oct 1996

#### 5. **HONORS & AWARDS**

2008.12	Travel Award for BioSearch08: HCSNet Next-Generation Search Workshop on Search in Biomedical Information, HCSNet, Australia
2008.07	Scientific Visit to China Award (Australia-China Exchange Program 2008/09) from Australian Academy of Science
1998.03 - 2001.09	International Postgraduate Research Scholarship (IPRS), Australia
1999.01 - 2002.03	University of Newcastle Research Scholarships (Central), Newcastle, Australia
1999.01 - 2002.03	Research supplementary scholarship from Faculty of Economics and Commerce, University of Newcastle, Australia
1999.01 - 1999.03	Fellowship of 7 <sup>th</sup> Logic Summer School, Automatic Reasoning Project (ARP), Australian National University (ANU)
1998.02 - 1998.08	Supplementary Engineering Award of Faculty of Engineering at UNSW

## 6. RESEARCH STRENGTH SUMMARY

### Research Interests and Achievement:

Dr Wei Liu's research strength lies in information science and knowledge intensive systems, using data mining and text mining technologies to discover patterns from both numerical and textual data.

Her work on *information pedigree*, a paradigm on integrating information from multiple information sources has been published at the highly selective ATAL conference (part of the later AAMAS conference). She also led an E-Bookworm project started in 2004 with a semi-automatic ontology learning system. This addresses the cold-start issues (labour intensive and time consuming) of manually constructing terminology databases and taxonomies. The research contributes significantly to the investigation of *emergent semantics* through text mining. The paper reporting the techniques and the system modules, won one of the best papers in the conference and was invited for journal publication. The techniques developed including *co-occurrence analysis* to identify taxonomic and non-taxonomic relations, and *spreading activation* to identify the core, extended and peripheral concepts. This 2005 paper has attracted 79 citations. This system laid the foundations for a comprehensive ontology learning system through corpus analysis. This work has continued with to a systematic development of new or enhanced techniques covering the entire life cycle of learning semantics from free-formed text documents. These include text pre-processing, term extraction, term clustering for concept formation, and relation extraction. The techniques developed have also been applied to mining clinical progress notes and now on referral letters, which aims to assist clinical decision making.

Conscious of making theoretical contribution to the knowledge base, Dr Liu is also a strong believer in the practical applicability of the research findings. In the past years, she has developed a number of web-based visualisation and analytical prototypes. These projects cover the extraction of information from three different spectrums: *semantic*, *social* and *sentiment*, and visualise and analyse the interaction of these components along both temporal and spatial dimensions. Detailed projects include:

- Topic progression over time through extracting and clustering topics in news articles;
- Heterogeneous information network analysis to rank and group research topics, authors and institutions on reported cancer research in PubMed (a database of medical research publications);
- Visualising and analysing academic publication networks, by automatic discovery of affiliations and geo-location;
- Visualising and analysing concept networks for evaluation of student learning progress, and automated multiple choice question generation to support online learning;
- Visualising multi-patient and historical ophthalmology vision field data using temporal-spatial visualisation techniques;
- Medical entity extraction from public health websites and clinician referral/discharge letters, which enables conversion of unstructured clinical notes to structured data records, ready for data mining and visualisation tasks;
- Harvesting data from popular social networks such as Twitter and Instagram for analysing social community formation and evolution over time and geo-space;
- Mining frequent sequences from eye surgery record data, to discover common patterns of procedures that are either due to or tend to lead to surgery complications.

In summary, Dr Liu extensive experience in extracting and displaying complex data

structures to assist analysis, where both numerical and textual data are intertwined as the time progresses.

### Research Grant Management:

Dr Liu has substantial experiences of successfully managing a number of small and large grants. These include

- 1) 2015-2018 **ARC DP150102405**A Cross-National and Cross-Cultural Study of Global Translation Industry, (CIs) Dr Meng Ji; A/Prof Roberto Togneri; Dr Wei Liu; \$509,850 (Current)
- 2) 2015 Artificial Intelligence for use in Logistics Automated Systems, **external grant through UNSW Global Search Pty Ltd (Unisearch) with BHP Billiton Iron Ore**, Tim French, Wei Liu, Lyndon While, Mark Reynolds, Melinda Hodkiewicz and Edward Cripps. \$181,440.00
- 3) 2011-2013 **Australia China Council**: Developing Mobile Health from Web Resources  
Investigators: Dr. Wei Liu, Dr. David Glance, Dr. Nigel Morlet, Dr. Jonathon Ng, and Dr Jie Tang
- 4) 2011-2014 **ARC Linkage**: Tools, Methodologies and Reasoning Support for Developing Companion Toy Modules  
Investigators: Prof. Lin Padgham, Dr. John Tangaraja, Dr. Wei Liu
- 5) 2009 Sole CI of **UWA Research Development Award** *Extracting Social Networks from Collaborative E-Portals* (2009),
- 6) 2008/2009, one of the five **Scientific Visits to China Awards** (*Australia-China Exchange Program 2008/09*) from the Australian Academy of Science.
- 7) **Three UWA Research Grants** as sole CIs on *Web Semantics* (2004), *Bootstrapping Semantic Web in Australia* (2004), *Vocabulary Extension for Autonomous Robots via Semantic Web Services* (2006);
- 8) **2006**, 3rd CI for a **DEST grants**: *Australia-China Autonomous Entertainment Robot Service Grid* (2006) and
- 9) **2002-2004**, **3<sup>rd</sup> CI**, **ARC Linkage Grant** on *Flexible and Robust Protocol-Based Interaction between Agents in Open Systems* (2002-2004).

### Conference Organisation, Book Editing and Service to the Research Community:

Dr Liu has successfully organised the *First, Second and Third* International Symposium on Practical Cognitive Agents and Robots (PCAR) in both 2006 (Perth), 2008 (Sydney) and 2010 (Toronto, Canada), as a program chair.

The symposium attracted participants from around 10 countries and provided her rich experience on the whole process of a conference organisation.

Dr Liu has also served as the ARC Discovery International Assessor since 2007.

Dr Liu has been invited to serve on program committees of many national (such as Australian AI, PRICAI) and international conferences (including AAMAS and IJCAI) and international reputable journals (such as VLDB and Journal of AAMAS). She has also served as ARC Inter-Reader for the past four years. She was also invited to give guest seminars at the University of New South Wales and the University of Technology Sydney, Shanghai Jiaotong University, Harbin Institute of Technology, the University of Science and Technology China, Hohai University in China and Chinese Search Engine Company Baidu.

### Research Supervision:

Dr Liu has successfully supervised close to 30 honours students, 1 PhD student and 1 Master by

Research Students. She is currently supervising five PhD students and one PhD Prelim and a number of Honours Project Student on topics related to Ontology Learning, Data Mining and Visualisation.

## 7. *SELECTED PUBLICATIONS (SINCE 2005)*

In the past 10 years from 2005-2015, Dr. Liu has published a total of 52 fully refereed publications, including one edited book, one edited journal special issue, two volumes of edited conference proceedings, 4 book chapters, 9 journal articles (two of them are at journals with high impact factor of 4), 35 fully refereed conference papers. It is worth noting that computer science conference publications are highly regarded in their qualities. The conference Dr. Liu published in mostly have less than 30% acceptance rate with at least three reviews for each paper. Conference proceedings are preferred venues due to the needs of disseminating research results promptly and in time to keep up with the fast paced research activities in this discipline. Out of the 35 conference publications, 17 of them are published in Springer books, which in fact are regarded as journal publications of type C1 according to the University's Socrates' Publication Auditing guidelines.

Dr. Liu's research is making a significant impact in the area of text mining and language processing, in particular, automatic and semi-automatic ontology extraction, with the foundation work in 2005 [17] attracted 79 citations and recent review published in 2012 [9] gaining 96 citations. A total of 633 citations according to Google Scholar since 2005, Dr. Liu conducts influential research in the field of data mining and text mining.

\* The citation counts are collected from Google on 25<sup>th</sup> Sep, 2015.

### (a) Edited Book

1. Wilson Wong, **Wei Liu**, Mohammed Bennamoun (2011) *Ontology Learning and Knowledge Discovery Using The Web: Challenges and Recent Advances*, IGI Global, USA

### (b) Edited Volume of Conference Proceedings and Journal Special Issues

2. **Wei Liu**, Xiaoping Chen, Benjamin Johnston and Mary-Anne Williams (eds). (2010) *Proceedings of the 3rd International Symposium on Practical Cognitive Agents and Robots (PCAR 2010)*, Toronto, Canada, May 10, 2010, ACM International Conference Proceeding Series
3. Xiaoping Chen, **Wei Liu** and Mary-Anne Williams (eds). (2009) *Journal of Autonomous Agents and Multi-Agent Systems - Special Issue on Practical Cognitive Agents and Robots*, Volume 19, Number 3, December 2009.
4. Xiaoping Chen, **Wei Liu**, and Mary-Anne Williams (eds). (2006) *Proceedings of International Symposium on Practical Cognitive Agents and Robots (PCAR 2006)*, Perth, Australia, ACM International Conference Proceeding Series; Vol. 213

### (b) Book Chapters

5. Peter Dreisiger, **Wei Liu** and Cara MacNish. (2012), *Estimating Conceptual Similarities Using Distributed Representations and Extended Backpropagation*, Behavior Computing Modeling, Analysis, Mining and Decision, Longbing Cao, Philip S. Yu (eds.) XVI, pp. 127-142



6. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) Featureless Data Clustering, Handbook of Research on Text and Web Mining Technologies, Chapter IX, pp. 141-164 **(cited by 9)**
7. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) *Determining Unithood and Termhood for Term Extraction*, Handbook of Research on Text and Web Mining Technologies, Chapter 30, pp. 500-529 **(cited by 22)**
8. **Wei Liu**, Husniza Husni and Lin Padgham. (2007) *Service Composition Tools from a Lifecycle Perspective*, Book Chapter for E-Service Intelligence, Lu, J., Ruan, D. and Zhang, G. (Eds.), Springer. pp. 125-146 **(cited by 8)**

#### **(c) Journal Articles**

9. **Wei Liu**, Bo Chung, Rui Wang, Johnaton Ng, Nigel Morlet. *A genetic algorithm enabled ensemble for unsupervised medical term extraction from clinical letters*. Health Information Science and Systems. 2015;3:5. doi:10.1186/s13755-015-0013-y.
10. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2012) *Ontology Learning from Text: A look back and into the future*, ACM COMPUTING SURVEYS, 44, 4, Article 20, pp. 20:1-20:36 **(cited by 96, Journal IF: 3.373 for 2014; 4.043 for 2013)**
11. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2011) *Constructing specialised corpora through analysing domain representativeness of websites*, LANGUAGE RESOURCES AND EVALUATION, 45, 2, pp. 209-241. **(cited by 3, Journal IF: 0.619 for 2014; 0.518 for 2013)**
12. Rachel Cardell-Oliver and **Wei Liu**. (2010) *Representation and Recognition of Situations in Sensor Networks*. IEEE Communications Magazine 48, 3, pp. 112-117. **(cited by 14, Journal IF: 4.007)**
13. **Wei Liu** and Wilson Wong. (2009) *Web Service Clustering using Text Mining Techniques*. International Journal of Agent-Oriented Software Engineering (JAOSE), Vol. 3, No. 1, 2009, pp. 6-26. **(cited by 69)**
14. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2008) *A Probabilistic Framework for Term Recognition*. Intelligent Data Analysis, IOS Press. pp. 499-539. **(cited by 15, Journal IF: 0.606)**
15. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) *Tree-Traversing Ant Algorithm for term clustering based on featureless similarities*, Journal of Data Mining and Knowledge Discovery, Vol. 15, No.3, pp. 349-381. **(cited by 36, Journal IF: 1.743)**
16. Arno Scharl, Albert Wichselbraun and **Wei Liu**. (2007) *Tracking and Modeling Information Diffusion across Interactive Online Media*, International Journal on Metadata, Semantics and Ontologies, Vol.2, No. 2, pp. 36-145, 2007 **(cited by 8)**
17. Lin Padgham and **Wei Liu**. (2007) *Internet Collaboration and Service Composition as a Loose Form of Teamwork*, Journal of Network and Computer Applications, Elsevier, Vol.30, No. 3, pp. 1116-1135, 2007 **(cited by 7, Journal IF:2.229)**
18. **Wei Liu**, Albert Weichselbraun, Arno Scharl, and Elizabeth Chang. (2005) *Semi-Automatic Ontology Extension Using Spreading Activation*, Journal of Universal Knowledge Management. Vol. 0, No.1, pp. 50-58, 2005 **(cited by 79, Journal IF: 0.566)**

**(d) Refereed Conference papers published as Springer lecture notes**

19. Keith Johnston, **Wei Liu** (2015) *A dual network for transfer learning with spike train data*, 28th Australasian Joint Conference on Artificial Intelligence 2015, Canberra, Australia, 30 Nov – 4 Dec 2015. (In Press)
20. Rui Wang, **Wei Liu**, Chris McDonald. (2015) *Using Word Embeddings to Enhance Keyword Identification for Scientific Publications*, Databases Theory and Applications - 26th Australasian Database Conference, ADC 2015, Melbourne, VIC, Australia, June 4-7, 2015. Proceedings. Lecture Notes in Computer Science 9093, Springer 2015. pp. 257-268
21. Jin Wang, Rachel Cardell-Oliver, **Wei Liu**. (2015) *Efficient Discovery of Re-current Routine Behaviours in Smart Meter Time Series by Growing Subsequences*, Advances in Knowledge Discovery and Data Mining – 19<sup>th</sup> Pacific-Asia Conference (PAKDD 2015) Ho Chi Minh City, Vietnam, May 19-22, pp. 522-533
22. Varun Godbole, **Wei Liu**, Roberto Togneri. (2015) *An Investigation of Neural Embeddings for Coreference Resolution*, Computational Linguistics and Intelligent Text Processing - 16th International Conference, CICLing 2015, Cairo, Egypt, April 14-20, 2015, Proceedings, Part I. Lecture Notes in Computer Science 9041, Springer 2015, pp. 241-251
23. **Wei Liu**, Harrison Sweeney, Bo Chung, & David Glance. (2014). *Constructing Consumer-Oriented Medical Terminology from the Web: A Supervised Classifier Ensemble Approach*. The 13th Pacific Rim International Conference on Artificial Intelligence, Gold Coast, Dec 2014, Springer. pp. 770-781
24. Rui Wang, **Wei Liu**, Chris McDonald. (2014) *How Preprocessing Affects Unsupervised Keyphrase Extraction*, Proceedings of the 15th International Conference on Computational Linguistics and Intelligent Text Processing, April 06-12, 2014, Kathmandu, Nepal. Volume 8403, pp. 163-176 (cited by 2)
25. Josef Robert Moser, Christian Gütl and **Wei Liu**. (2012) *Refined Distractor Generation with LSA and Stylometry for Automated Multiple Choice Question Generation*, Proceedings of the 25<sup>th</sup> Australasian Joint Conference on Artificial Intelligence (AI 2012: Advances in Artificial Intelligence), Michael Thielscher, Dongmo Zhang (eds.), LNCS Vol. 7691, 2012, pp. 95-106 (cited by 3)
26. Arvin Varadharajalu, **Wei Liu**, Wilson Wong, (2011) *Author name disambiguation for ranking and clustering PubMed data using NetClus*, 24th Australasian Joint Conference in Artificial Intelligence (AI 2011), Perth, Australia, 7106 LNAI, pp. 152 - 161. (cited by 1)
27. Saeed Danesh, **Wei Liu**, Tim French, Mark Reynolds. (2011) *An Investigation of Recursive Auto-associative Memory in Sentiment Detection*, 7th International Conference Advanced Data Mining and Applications (ADMA 2011), Nanjing China, 7120, pp. 162-174. (cited by 2)
28. Yingjie Lei, Wilson Wong, **Wei Liu**, Mohammed Bennamoun. (2011) *An HMM-SVM-Based Automatic Image Annotation Approach*, 2010 10th Asian Conference on Computer Vision, Germany, 6495, pp. 115-126. (cited by 5)
29. Yingjie Lei, Wilson Wong, Mohammed Bennamoun, **Wei Liu**. 2011, *Integrating Visual Classifier Ensemble with Term Extraction for Automatic Image Annotation*, 6th IEEE Conference on Industrial Electronics and Applications (ICIEA), Beijing, China, 1, pp. 1959-1965 (cited by 1)



30. Wilson Wong, **Wei Liu** and Mohammed Bennamoun. (2010) *An Ontology-based Interface for Improving Information Exploration*, First International Workshop on Intelligent Visual Interfaces for Text Analysis, New York USA, 1, pp. 29-32 **(cited by 1)**
31. Evan Wong, **Wei Liu** and Xiaoping Chen (2009) *Connecting the Real World with the Virtual World: Controlling AIBO through Second Life*. In: RoboCup 2009 Symposium; Graz, Austria, June, 2009 pp. 402-413.
32. Wilson Wong, **Wei Liu** and Mohammed Bennamoun (2009) *Acquiring Semantic Relations using the Web for Constructing Lightweight Ontologies*. In: 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2009) Bangkok, Thailand. April, 2009 pp. 266-277 **(cited by 5)**
33. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun (2008) *Constructing Web Corpora through Topical Web Partitioning for Term Recognition*. In: 21st Australasian Joint Conference on Artificial Intelligence (AI); Auckland, New Zealand, Dec 2008 pp. 67-78. **(cited by 3)**
34. Albert Weichselbraun, Arno Scharl, **Wei Liu** and Gerhard Wöhlgenannt. (2007) *Capturing Ontology Evolution Processes by Repeated Sampling of Large Document Collections*, On the Move to Meaningful Internet Systems 2007: OTM 2007 Workshops, Vilamoura, Portugal, November 25-30, 2007 (Lecture Notes in Computer Science, vol. 4805). Eds. R. Meersman, Z. Tari and P. Herrero. Berlin: Springer: 23-24 **(cited by 3)**
35. Michael Winikoff, **Wei Liu**, and James Harland. (2005) *Enhancing Commitment Machines*, Declarative Agent Languages and Technologies (DALT 2004), J. Leite, A. Omicini, P. Torroni and P. Yolum (Eds), Springer, LNAI, 2005 pp. 198-220. **(cited by 58)**

**(e) refereed Conference papers**

36. Lyndon White, Robert Togneri, Wei Liu, and Mohammed Bennamoun, M. 2015. *How Well Sentence Embeddings Capture Meaning*. In Proceedings of the 20th Australasian Document Computing Symposium (ADCS '15), Laurence A. F. Park and Sarvnaz Karimi (Eds.). ACM, New York, NY, USA. DOI=<http://dx.doi.org/10.1145/2838931.2838932>
37. Jin Wang, Rachel Cardell-Oliver, **Wei Liu**. *Discovering Routine Behaviours in Smart Water Meter Data*, Tenth IEEE International Conference on Intelligent Sensors, Sensor Networks and Information Processing, ISSNIP 2015, Singapore, April 7-9, 2015. Pages 1-6
38. Anthony Blond, **Wei Liu** and Rachel Cardell-Oliver (2013) An investigation on window size selection for human activity recognition. The 11<sup>th</sup> Australasian Data Mining and Analytics Conference (AusDM13), Canberra, Australia Nov, 2013.
39. Du Huynh, Amritpal Saini, Wei Liu. 2009, *Evaluation of Three Local Descriptors on Low Resolution Images for Robot Navigation*, 24th International Conference Image and Vision Computing New Zealand, New Zealand, 1, pp. 113-118. **(cited by 15)**
40. Sue Jo Liaw, Wilson Wong, **Wei Liu** and David Glance (2008) *Extracting and Analysing Social Networks of Physicians*. In: IEEE/WIC/ACM International Workshop on Computational Social Networks (IWCSN); pp. 406-409. Sydney, Australia
41. Albert Weichselbraun, Arno Scharl and **Wei Liu** (2008) *Capturing and Classifying Ontology Evolution in News Media Archives*. In Nineteenth International Workshop on Database and Expert Systems Application (DEXA 2008); Seventh International Workshop on Web Semantics (WebS'08), Hrsg. Tjoa, A. M. and Wagner, R. R., 197-201. Turin, Italy:

IEEE Computer Society Press (**cited by 2**)

42. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2008) *Determining the Unithood of Word Sequences using a Probabilistic Approach*. In: 3rd International Joint Conference on Natural Language Processing (IJCNLP); Hyderabad, India, Jan 2008, pp.103-110 (**cited by 1**)
43. Majigsuren Enkhsaikhan, **Wei Liu** and Mark Reynolds. (2008) *Geographical and Temporal Visualization of Social Relationships*, Pacific Asia Conference on Information Systems (PACIS 2008) July 4-7 2008, Suzhou, China
44. Majigsuren Enkhsaikhan, Wilson Wong, **Wei Liu**, and Mark Reynolds. (2007) Measuring Data-Driven Ontology Changes using Text Mining. In: 6th Australasian Conference on Data Mining (AusDM); Gold Coast, Dec 2007. pp. 35-42 (**cited by 12**)
45. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) Determining Termhood for Learning Domain Ontologies (Part II): a Probabilistic Framework. In: 6th Australasian Conference on Data Mining (AusDM); Gold Coast, Dec 2007. pp. 55-63. (**cited by 15**)
46. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) Determining Termhood for Learning Domain Ontologies (Part I): Domain Prevalence and Tendency. In: 6th Australasian Conference on Data Mining (AusDM); Gold Coast, Dec 2007. pp. 47-54. (**cited by 28**)
47. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) Determining the Unithood of Word Sequences using Mutual Information and Independence Measure. In: 10th Conference of the Pacific Association for Computational Linguistics (PACLING); Melbourne, Australia. (**cited by 10**)
48. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2007) *Enhanced Integrated Scoring for Text Pre-processing in Ontology Engineering from Dirty Text*, IJCAI-2007 Workshop on Analytics for Noisy Unstructured Text Data Program Committee, India, Jan 2007. (**cited by 14**)
49. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2006) *Integrated Scoring for Spelling Error Correction, Abbreviation Expansion and Case Restoration in Dirty Text*, Australasian Data Mining Conference (AusDM 2006), Sydney Australia, December 2006 pp. 83-89 (**cited by 34**)
50. Kai Xu, Xiaoping Chen, **Wei Liu**, Mary-Anne Williams. (2006) *Legged robot gait locus generation based on genetic algorithms*, International Symposium of Practical Agents and Robots (PCAR 2006), Perth Australia, November 2006. pp. 51-62 (**cited by 6**)
51. Bodey Baker, **Mark Reynolds**, and **Wei Liu**. (2006) *Strategy specification for teamwork in robot soccer*, International Symposium of Practical Agents and Robots (PCAR 2006), Perth Australia, November 2006. pp. 129-140 (**cited by 3**)
52. Wilson Wong, **Wei Liu**, and Mohammed Bennamoun. (2006) *Featureless similarities for terms clustering using tree-traversing ants*, International Symposium of Practical Agents and Robots (PCAR 2006), Perth Australia, November 2006. pp. 177-191 (**cited by 9**)
53. **Arno Scharl**, Albert Weichselbraun, and **Wei Liu**. (2006) *An Ontology-based Architecture for Tracking Information across Interactive Electronic Environments*, Hawaii International Conference on System Sciences (HICSS-39), Hawaii, Jan 2006. pp. 160b (**cited by 3**)

54. **Wei Liu.** (2005) *Trustworthy Service Selection and Composition – Reducing the Entropy of Service-oriented Web*, 3rd International IEEE Conference on Industrial Informatics (INDIN 2005), August 2005, Perth, Australia. pp. 104-109 (**cited by 31**)

## **8. PRESENT CORRESPONDING ADDRESS**

Dr Wei Liu  
School of Computer Science and Software Engineering  
The University of Western Australia (M002)  
35 Stirling Highway, Crawley, WA 6009  
Tel: +61-8-6488 3095  
Fax: +61-3-6488 1089  
Email: [wei.liu@uwa.edu.au](mailto:wei.liu@uwa.edu.au)  
URL: <http://www.csse.uwa.edu.au/~wei>