

Shenghui Wang

Date of Birth: 9 July, 1979
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The Netherlands
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- EDUCATION**
- ◇ **University of Manchester**, Manchester, UK
Ph.D. in Computer Science, May 2007.
Supervised by Prof. Dr. David S. Brée
Thesis title: *The Semantics of Natural Language Descriptions of Continuous Quantities.*
 - ◇ **University of Science and Technology of China**, Hefei, Anhui, P.R.China
Master [M.Sc.] in Computer Application Technology, July 2003.
Supervised by Prof. Dr. Xufa Wang
Thesis title: *On Several Key Technical Issues in Kansei Image Retrieval.*
GPA 84.9/100
 - ◇ **Anhui University**, Hefei, Anhui, P.R.China.
Bachelor [B.Sc.] (Hons) in Computer Science (Minor in English), July 2000.
Supervised by Prof. Dr. Xiaoping Chen
Thesis title: *The Basic Principle of Simulated RoboCup and the Design and Implementation of Anhui Team.*
GPA 89.2/100 (First of my promotion)
- RESEARCH INTERESTS**
- ◇ Semantic Web: Linked Open Data, Ontology Alignment, Semantic Interoperability, Concept Drift and Ontology Dynamics
 - ◇ Web Science: Social Network Analysis, Computer-mediated Communication
 - ◇ Knowledge Representation and Reasoning
 - ◇ Text Analysis: Information Extraction, Content Analysis, Semantic Similarity
- RESEARCH PROJECTS**
- ◇ 06/2011 - present: Wageningen UR Food and Biobased Research
Research in eFoodLab
 - collective development and maintenance of ontology's in specific application contexts.
 - Extraction, storage, and alignment of vocabularies specialized to particular application domains.
 - Integration of multi-source and multi-format food data.
 - Creating incentives for knowledge sharing
 - ◇ 11/2010 - 12/2010: University of Stanford
Visiting scholar in Stanford Center for Biomedical Informatics Research (BMIR)
 - Analysing change logs of the ongoing development of the new International Disease Classification, ICD-11
 - Applying machine learning techniques for change prediction based on previous changes and social aspects of editors
 - ◇ 09/2009 - 05/2011: Vrije Universiteit Amsterdam and Rathenau Institute
Postdoc research on Semantically Mapping Science (SMS) Project
 - Applying multilevel analysis on longitudinal Scientometrics network data
 - ◇ 06/2009 - 05/2011: Vrije Universiteit Amsterdam
Postdoc research on social and communication networks
 - Extracting data from online social media

- Representing social interaction and content communication networks in the communication domain
 - Developing theory, methods and tools for analysing multilevel dynamics of co-evolving networks
 - Developing theory, methods and tools for analysing semantic drift in ontology concepts over time
- ◇ 02/2007 - 05/2009: Vrije Universiteit Amsterdam and Koninklijke Bibliotheek (National Library of the Netherlands)
 Postdoc research in the “Semantic Interoperability To access Cultural Heritage” (STITCH) project and “The European Library Plus” (TELplus) project
- representing cultural heritage data in RDF/OWL/SKOS
 - developing methods and tools for ontology alignment
 - deploying semantic links in cultural heritage applications
 - organising evaluation with domain experts and for the OAEI campaign (2007, 2008, 2009)
- ◇ 09/2003 - 02/2007: University of Manchester
 PhD research in semantic processing and representation of natural language descriptions of continuous quantities.
- semantic modelling and similarity measure
 - ontological representation and automated reasoning
 - query answering and information integration
- Funded by the British Overseas Research Students (ORS) Awards and the Computer Science department of the University of Manchester.
- ◇ 09/2001 - 07/2003: University of Science and Technology of China
 Research in the Emotional Information Retrieval System
- modelling user emotional requirements
 - personalising an image retrieval system based on users’ dynamic emotional feedback
- Funded by the National 973 project of China (G1998030500): *Intellectual Information Retrieval based on Cognitive Neural Science*.
- ◇ 05/2001 - 10/2001: University of Science and Technology of China and the Chinese National Audit Office in Nanjing
 Developing a Heterogeneous Data Retrieval Engine, providing a uniform interface to various data sources, such as net databases (Oracle, SQL Server, DB2, etc), file databases (Access, Excel, XBase, etc.) and text files.
- ◇ 01/2000 - 07/2000: Anhui University
 Leader of the first student research project on RoboCup
- Designing and implementing a multi-agent system for RoboCup simulation league under Linux in C++ and took part in the National Robocup Competition, held by the 3rd world Congress on Intelligent control and Automation, Hefei, China, 2000.
- EDITORIAL ◇ Member of the editorial board of the International Journal On Advances in Intelligent Systems (2012 -)
- ORGANISER ◇ Joint International Semantic Technology Conference (JIST2011), Tutorial chair
- PC MEMBER ◇ The 36th Annual IEEE Computer Software and Applications Conference (COMPSAC 2012), Web Semantic Track
- ◇ The Extended Semantic Web Conference (ESWC) 2012
- ◇ The International Conference on Advances in Semantic Processing (SEMAPRO) 2009, 2010, 2011, 2012
- ◇ The 2nd Joint International Semantic Technology Conference (JIST2012)

- ◇ The 2nd workshop on Making Sense of Microposts (MSM), 2012
- ◇ The 10th International Semantic Web Conference (ISWC2011), In-use Track
- ◇ The Workshop on Interdependent Networks: Quality, Influence and Evolution in Social and Information Networks (WIN2011), at the 22nd ACM Hypertext 2011 track on Social Media
- ◇ The Extended Semantic Web Conference (ESWC) 2011, the Social Web and Web Science Track
- ◇ The Extended Semantic Web Conference (ESWC) 2011, PhD Symposium
- ◇ The ESWC Workshop on Making Sense of Microposts (MSM), 2011
- ◇ The 9th International Semantic Web Conference (ISWC2010) Doctoral Consortium
- ◇ The International Workshop on Ontology Matching (OM2010, OM2011)
- ◇ The 4th International Workshop on Ontology Dynamics (IWOD-10)
- ◇ The 17th biennial European Conference on Artificial Intelligence (ECAI 2008)
- ◇ The AI and the Web Special Track in the 23rd AAAI Conference on Artificial Intelligence (AAAI-08 AIW)
- ◇ The 9th Annual CLUK Research Colloquium (CLUK 2006)

- REVIEWER
- ◇ Journal of Web Semantics, Special Issue on Semantic Web Dynamics, 2010
 - ◇ Semantic Web Journal, 2010
 - ◇ Journal of Computer Science and Technology, 2010, 2011
 - ◇ Journal of Data & Knowledge Engineering, 2009
 - ◇ IEEE Intelligent Systems, Special Issue on AI and Cultural Heritage, ISSI-2008-08-0119.R1
 - ◇ Journal of the American Society for Information Science and Technology, 2008
 - ◇ Posters of the 17th International World Wide Web Conference (WWW 2008)
 - ◇ External reviewer for ASWC2008, EKAW2008, AIMS2008, ESWC2009, OM2009, AAAI2010, EKAW2010, ESWC2010

- WORK EXPERIENCE
- ◇ 06/2011 - present: **Researcher** in Wageningen UR Food and Biobased Research, Wageningen, the Netherlands
 - ◇ 09/2011: **Joint organiser** of the SIKS advanced course on Semantic web, Zeist, the Netherlands
 - ◇ 11/2010 - 12/2010: **Visiting scholar** in Stanford Center for Biomedical Informatics Research (BMIR), University of Stanford
 - ◇ 09/2009: **Joint organiser** of the SIKS advanced course on Semantic web, Utrecht, the Netherlands
 - ◇ 02/2007 - 05/2011: **Postdoc** researcher, Vrije Universiteit Amsterdam
 - research on multilevel dynamics in co-evolving networks
 - research on concept drift and ontology evolution
 - research on semantic interoperability in cultural heritage
 - organising end-user evaluation
 - assisting the organisation of the OAEI library track 2007, 2008, 2009
 - writing research papers and proposals
 - supervising bachelor and master students
 - Balthasar A.C. Schopman, Bachelor thesis: *Instance-Based Ontology Matching On A Lexical Level*, 2008
 - Balthasar A.C. Schopman, Master thesis: *Instance-based Ontology Matching by Instance Enrichment*, 2009 (Cum Laude)

- Dennis Lokkers, Master thesis: *Sentiment Analysis of Dutch Social Media*, 2009
 - Laurens Rietveld, Master thesis: *Applying Crowd-Sourcing in Affect Analysis of Dutch Social Media*, 2010
 - ◇ 04/03/2008: **Invited lecturer** in Advanced SIKS Course: Web-based Systems: a semantic perspective, Vught, the Netherlands
 - ◇ 09/2007 - 05/2011: **Supporting Lecturer**, Vrije Universiteit Amsterdam
Courses: Intelligent Web Application (2007, 2008), Web KR (2008), Project Informatiekunde (2008)
 - ◇ 01/2004 - 02/2007: **Demonstrator**, School of Computer Science, University of Manchester
Courses: Neural Networks, Computer Graphics, Software Engineering, Digital Electronics
 - ◇ 08/2001 - 09/2001: **Programmer**, University of Science and Technology of China
Implemented a multi-functional control for displaying and analysing audit data in VB and VC++, which was added into *Custom Business Audit Software* (Version 2.0)
 - ◇ 09/2000 - 07/2001: **Teaching Assistant**, Department of Computer Science, University of Science and Technology of China
Courses: Software Engineering, C Programming
 - ◇ 07/2000 - 08/2000: **Office Assistant**, Zhiyuan Electricity Technology Company, Hefei
Responsible for general reception work as well as assisting in the writing of a user manual of equipment designed by the company
 - ◇ 09/1998 - 12/1998: **Translator**, Anhui University
Translated technical papers, mainly on the principle of compiling, from English into Chinese.
 - ◇ 09/1997 - 12/1998: **Personal Tutor**, Hefei
Helped two high school girls with mathematics, physics, chemistry and English
- OTHER EXPERIENCE
- ◇ 06/2005 - 12/2006: **Volunteer** in Student Action Manchester
Weekly activities with a group of 5 adults with varying learning disabilities
 - ◇ 01/1998 - 12/1998: **Fund raiser** for Project Hope of China
Raised the target amount of money (500 RMB) for Project Hope, organised by the China Youth Development Foundation (CYDF)
- SKILLS
- ◇ Python, Perl, Java, C, C++, Matlab, R
 - ◇ XML, RDF(S), OWL, SKOS
 - ◇ OpenGL, Digital Electronics
 - ◇ Linux (Shell, GNOME, KDE), Mac OS, MS-Windows
 - ◇ Chinese (native), fluent spoken/written English
- REFERENCES
- Frank van Harmelen, Professor, Department of Computer Science, Vrije Universiteit Amsterdam
 - Jan Kleinnijenhuis, Professor, Department of Communication Science, Vrije Universiteit Amsterdam

BOOK

- ◇ Shenghui Wang. Semantics of natural language descriptions of continuous quantities. LAP LAMBERT Academic Publishing. 2012.

JOURNAL PUBLICATIONS

- ◇ Shenghui Wang, Antoine Isaac, Stefan Schlobach, Lourens van der Meij and Balthasar Schopman. Instance-based Semantic Interoperability in the Cultural Heritage. Accepted in *Semantic Web – Interoperability, Usability, Applicability*. 2011
- ◇ Christophe Gueret, Shenghui Wang, Paul Groth and Stefan Schlobach. Multi-scale analysis of the Web of Data: a challenge to the Complex System’s community. *Advances in Complex Systems* 14(4). 2011
- ◇ Shenghui Wang, Stefan Schlobach and Michel Klein. Concept drift and how to identify it. *Web Semantics: Science, Services and Agents on the World Wide Web* 9 (2011), pp. 247-265. (Impact factor: 3.412).
- ◇ Antoine Isaac, Shenghui Wang, Claus Zinn, Henk Mattheizing, Lourens van der Meij and Stefan Schlobach. Evaluating Thesaurus Alignments for Semantic Interoperability in the Library Domain. *IEEE Intelligent Systems Special Issue on AI and Cultural Heritage* 24(2) - Mar/Apr 2009 (Impact factor: 1.438)
- ◇ Shenghui Wang, David Rydeheard and Jeff Z. Pan. The Semantics Processing of Continuous Quantities for Discrete Terms in Ontologies. *Journal of Logic and Computation* 18(3): 341-359. 2008. (Impact factor: 0.821)
- ◇ Shenghui Wang and Jeff Z. Pan. Semantically Processing Parallel Colour Descriptions. *Journal of Data Semantics* X:212-236, 2008.
- ◇ Shenghui Wang, Shangfei Wang and Xufa Wang. Visualised Interactive Genetic Algorithm and its Application in Kansei-based Image Retrieval. *Mini-Micro Systems*, Vol.25, No.3, P.399-403, 2004.
- ◇ Shangfei Wang, Shenghui Wang and Xufa Wang. Improved Interactive Genetic Algorithm Incorporating with SVM and Its Application. *Journal of Data Acquisition and Processing*, Vol.18, No.4, P.429-433, 2003.
- ◇ Shangfei Wang, Enhong Chen, Shenghui Wang and Xufa Wang. A Kansei Image Retrieval Based on Emotion Model. *Journal of Circuits and Systems*, Vol.8, No. 6, P.48-52, 2003.

CONFERENCE PAPERS

- ◇ Shenghui Wang and Paul Groth. A Framework for Longitudinal Influence Measurement between Communication Content and Social Networks. To appear in the Best Paper Track at the IJCAI 2011 conference.
- ◇ Shenghui Wang, Jan Kleinijenhuis and Dirk Oegema. Network dynamics in online discussions and the proliferation of negative emotions about immigrants: a reciprocal longitudinal random coefficients model. In *Proceedings of 2011 Conference of the International Communication Association (ICA2011)*, May 2011, Boston
- ◇ Shenghui Wang, Paul Groth, Jan Kleinnijenhuis and Dirk Oegema. Multilevel longitudinal analysis for studying influence between co-evolving social and content networks. In *SUNBELT 2011 : 31st annual conference of the International Network for Social Network Analysis (INSNA)*. St. Pete Beach, Florida, USA
- ◇ Shenghui Wang and Paul Groth. Measuring the dynamic bi-directional influence between content and social networks. In *Proceedings of the 9th International Semantic Web Conference (ISWC 2010)*. Shanghai, China. (acceptance rate: 20%, **Best research paper award**)
- ◇ Shenghui Wang, Gwenn Englebienne, Christophe Gueret, Stefan Schlobach, Antoine Isaac and Martijn Schut. Similarity Features, and their Role in Concept Alignment Learning. In *Proceedings of the Fourth International Conference on Advances in Semantic Processing (SEMAPRO2010)*. October 2010, Florence, Italy (**Best paper award**)

- ◇ Shenghui Wang, Stefan Schlobach and Michel Klein. What is concept drift and how to measure it? In *Proceedings of the 17th International Conference on Knowledge Engineering and Knowledge Management (EKAW2010)*. October 2010, Lisbon
- ◇ Yiwen Wang, Shenghui Wang, Natalia Stash, Lora Aroyo, and Guus Schreiber. Enhancing Content-based Recommendation with the Task Model of Classification. In *Proceedings of the 17th International Conference on Knowledge Engineering and Knowledge Management (EKAW2010)* short paper. October 2010, Lisbon
- ◇ Christophe Gueret, Shenghui Wang and Stefan Schlobach. The Web of Data as a Complex System. In *Proceedings of European Conference on Complex Systems (ECCS2010)* . September 2010, Lisbon
- ◇ Shenghui Wang, Janet Heleen Takens, Wouter van Atteveldt and Stefan Schlobach. Extensional Mapping-Chains for Studying Concept Drift in Political Ontologies. In *Proceedings of 2010 Conference of the International Communication Association (ICA2010)*, June 2010, Singapore (**Best paper award** in the Information System division)
- ◇ Dirk Oegema, Shenghui Wang and Jan Kleinnijenhuis. Online discussions about politics as a function of news attention. In *Proceedings of the 2nd Web Science Conference* (poster), April 2010, Raleigh, NC, USA.
- ◇ Shenghui Wang, Stefan Schlobach, Janet Takens and Wouter van Atteveldt. Large Scale Content Analysis, Ontology Mapping, and Concept Drift. In *Het Etmaal van de Communicatiewetenschap 2010*, Gent, Belgium.
- ◇ Antoine Isaac, Dirk Kramer, Lourens van der Meij, Shenghui Wang, Stefan Schlobach and Johan Stapel. Vocabulary Matching for Book Indexing Suggestion in Linked Libraries A Prototype Implementation & Evaluation. In *Proceedings of the 8th International Semantic Web Conference (ISWC 2009)*. Washington, US.
- ◇ Shenghui Wang, Antoine Isaac, Balthasar Schopman, Stefan Schlobach and Lourens van der Meij. Matching multi-lingual subject vocabularies. In *Proceedings of the 13th European Conference on Digital Libraries (ECDL2009)*. Corfu, Greece. (acceptance rate: 21%)
- ◇ Balthasar Schopman, Shenghui Wang and Stefan Schlobach. Deriving concept mappings through instance mappings. In *Proceedings of the 3rd Asian Semantic Web Conference (ASWC2008)*: 122-136. Bangkok, Thailand, December, 2008.
- ◇ Shenghui Wang, Gwenn Englebienne and Stefan Schlobach. Learning Concept Mappings from Instance Similarity. In *Proceedings of the 7th International Semantic Web Conference (ISWC2008)*:339-355. Karlsruhe, Germany, October 2008. (Acceptance rate: 16%)
- ◇ Antoine Isaac, Lourens van der Meij, Stefan Schlobach, and Shenghui Wang. An empirical study of instance-based ontology matching. In *Proceedings of the 20th Belgium-Netherlands Conference on Artificial Intelligence (BNAIC 2008)*. Enschede, the Netherlands, October, 2008.
- ◇ Antoine Isaac, Henk Matthezing, Lourens van der Meij, Stefan Schlobach, Shenghui Wang and Claus Zinn. Putting ontology alignment in context: usage scenarios, deployment and evaluation in a library case. In *Proceedings of the 5th European Semantic Web Conference (ESWC 2008)*: 402-417. Tenerife, Spain, June, 2008. (Acceptance rate: 19%)
- ◇ Laura Hollink, Mark van Assem, Shenghui Wang, Antoine Isaac and Guus Schreiber. Two Variations on Ontology Alignment Evaluation: Methodological Issues. In *Proceedings of the 5th European Semantic Web Conference (ESWC 2008)*: 388-401. Tenerife, Spain, June, 2008. (Acceptance rate: 19%)
- ◇ Shenghui Wang and Jeff Z. Pan. Ontology-based Integration and Retrieval over Multiple Quantities — What if “Ovate leaves and often blue to purple flowers?” In *Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence*: 388-394. Silicon Valley, CA, USA, 2-5 Nov, 2007. (Acceptance rate: 16%)
- ◇ Antoine Isaac, Lourens van der Meij, Stefan Schlobach and Shenghui Wang. An empirical study of instance-based ontology matching. In *Proceedings of the 6th International Semantic Web Conference and 2nd Asian Semantic Web Conference*, (ISWC/ASWC2007): 253-266. Busan, Korea, Nov 2007. (Acceptance rate: 19%)

- ◇ Shenghui Wang and Jeff Z. Pan. Integrating and Querying Parallel Leaf Shape Descriptions. In *Proceedings of the 5th International Semantic Web Conference (ISWC2006)*: 668-681. Athens, Georgia, USA, 2006. (Acceptance rate: 24%)
- ◇ Shenghui Wang and Jeff Z. Pan. Ontology-based Representation and Query of Colour Descriptions from Botanical Documents. *OTM Conferences (2)* 2005: 1279-1295.

WORKSHOP PAPERS

- ◇ Julie M. Birkholz and Shenghui Wang. Who are we talking about?: the validity of online metrics for commenting on science. In *Proceedings of the altmetrics11: Tracking scholarly impact on the social Web*. Koblenz, Germany, 2011.
- ◇ Shenghui Wang, Stefan Schlobach, Janet Takens and Wouter van Atteveldt. Studying Concept Shift in Political Ontologies. In *Proceedings of the Workshop on Matching and Meaning of the 36th Annual Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB'10)*, 29th March - 1st April 2010, Leicester, UK
- ◇ Shenghui Wang, Stefan Schlobach, Janet Takens and Wouter van Atteveldt. Mapping-Chains for studying Concept Shift in Political Ontologies. In *Proceedings of the Third International Workshop on Ontology Matching (OM2009)*. Washington, US. (Acceptance rate: 25%)
- ◇ Antoine Isaac, Cassia Trojahn, Shenghui Wang and Paulo Quaresma. Using quantitative aspects of alignment generation for argumentation on mappings. In *Proceedings of the Third International Workshop on Ontology Matching*, collocated with the 7th International Semantic Web Conference (ISWC2008). Karlsruhe, Germany, October, 2008.
- ◇ Shenghui Wang, Antoine Issa, Lourens van der Meij and Stefan Schlobach. Multi-Concept Alignment and Evaluation. In *Proceedings of the Second International Workshop on Ontology Matching*, collocated with the 6th International Semantic Web Conference and 2nd Asian Semantic Web Conference (ISWC/ASWC2007). Busan, Korea, Nov 2007.
- ◇ Shenghui Wang. Logic-based representation and integration of colour descriptions from botanical documents. In *Proceedings of Tenth ESSLLI Student Session*: 411-422, Edinburgh, Scotland, 2005.
- ◇ Mary McGee Wood and Shenghui Wang. Motivation for “ontology” in parallel-text information extraction. In *Proceedings of ECAI-2004 Workshop on Ontology Learning and Population (ECAI-OLP)*, Poster, Valencia, Spain, 2004.