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Research Interests

Semantic Web, Ontology Engineering, Data Integration, Network Analysis, Biomedical Informatics.

Education

Ph.D., Computer Software & Theory, Southeast University, 2005–2009, advised by Yuzhong Qu.

B.S., Computer Science & Technology, Southeast University, 2001–2005.

Employment

Associate Professor, Dept. of Computer Science & Technology, Nanjing University, 2014/01–

Assistant Professor, Dept. of Computer Science & Technology, Nanjing University, 2009/12–2013/12.

Visiting Professor, University of Toronto, 2017/05–2017/11, with Sheila McIlraith and Michael Brudno.

Visiting Scholar, University of Texas at Arlington, 2016/11–2017/05, with Chengkai Li.

Visiting Scholar, Stanford University, 2014/09–2015/09, with Michel Dumontier.

Research Intern, IBM China Research Laboratory, 2008/09–2008/12, with Xingzhi Sun.

Visiting Scholar, Vrije Universiteit Amsterdam, 2007/11–2008/05, with Frank van Harmelen.

Teaching

Introduction to Databases, CS Undergraduate, Fall 2010–2015.

Introduction to Ontology Engineering, CS Undergraduate, Summer School 2012–2014.

Projects

PI, Crowdsourcing Entity Linkage for the Semantic Web, National Natural Science Foundation of China 61370019, 2014/01–2017/12.

PI, Object Coreference Resolution on the Semantic Web, National Natural Science Foundation of China 61003018, 2011/01–2013/12.

PI, Large-Scale Semantic Web Data Integration, National Research Foundation for the Doctoral Program of Higher Education of China 20100091120041, 2011/01–2013/12.

PI, Semantic Web Based Knowledge Services, Natural Science Foundation of Jiangsu Province BK2011189, 2011/09–2014/12.

Co-PI, Semantic Search and Integration for Information Convergence, CETC-28, 2012/05–2013/10.

Co-PI, Ontology-Based Modeling and Annotating for Convergence, Samsung Electronics (China) R&D Center, 2011/03–2011/12.

Member, Open-Domain Knowledge Integration, Reasoning and Retrieval, National High Technology Research and Development Program of China 2015AA015406, 2015/01–2017/12.

Member, Big Media Data Content Analysis and Associated Semantic Mining, National Natural Science Foundation of China 61223003, 2013/01/01–2016/12/31.

Member, Semantic Web Application Technology Architecture and Development Strategy, National Social Science Foundation of China 11AZD121, 2011/12/31–2014/12/31.

Awards

Awardee of Nanjing University Study and Research Abroad Program, 2013.

Outstanding Instructor for Nanjing University Undergraduate Innovation Program, 2012.

Joint International Semantic Technology Conference (JIST) Best Paper Award, 2011.

IBM China Excellent Student, 2008.

International Semantic Web Conference (ISWC) Best Paper Award Nominee, 2007.

Selected Publications

Journal Articles

1. Wei Hu*, Cunxin Jia. A Bootstrapping Approach to Entity Linkage on the Semantic Web. *Journal of Web Semantics*. 34: 1–12, 2015.
2. Wei Hu*, Rui Yang, Yuzhong Qu. Automatically Generating Data Linkages Using Class-Based Discriminative Properties. *Data and Knowledge Engineering*. 91: 34–51, 2014.
3. Wei Hu*, Yuzhong Qu, Xingzhi Sun. Bootstrapping Object Coreferencing on the Semantic Web. *Journal of Computer Science and Technology*. 26(4): 662–674, 2011.
4. Wei Hu*, Yuzhong Qu, Gong Cheng. Matching Large Ontologies: A Divide-and-Conquer Approach. *Data and Knowledge Engineering*. 67(1): 140–160, 2008.
5. Wei Hu*, Yuzhong Qu. Falcon-AO: A Practical Ontology Matching System. *Journal of Web Semantics*. 6(3): 237–239, 2008.

Inproceedings

1. Wei Hu, Haoxuan Li, Zequn Sun, Xinqi Qian, Lingkun Xue, Ermei Cao, Yuzhong Qu. Clinga: Bringing Chinese Physical and Human Geography in Linked Open Data. In: *International Semantic Web Conference*. LNCS 9982, 104–112, 2016.
2. Wei Hu, Honglei Qiu, Michel Dumontier. Link Analysis of Life Science Linked Data. In: *International Semantic Web Conference*. LNCS 9367, 446–462, 2015.
3. Jiwei Ding, Wentao Ding, Wei Hu, Yuzhong Qu. An EBMC-Based Approach to Selecting Types for Entity Filtering. In: *AAAI Conference on Artificial Intelligence*. 88–94, 2015.
4. Wei Hu, Cunxin Jia, Lei Wan, Liang He, Lixia Zhou, Yuzhong Qu. CAMO: Integration of Linked Open Data for Multimedia Metadata Enrichment. In: *International Semantic Web Conference*. LNCS 8796, 1–16, 2014.
5. Saisai Gong, Wei Hu, Yuzhong Qu. Leveraging Distributed Human Computation and Consensus Partition for Entity Coreference. In: *Extended Semantic Web Conference*. LNCS 8465, 411–425, 2014.
6. Rong Gu, Wei Hu, Yihua Huang. Rainbow: A Distributed and Hierarchical RDF Triple Store with Dynamic Scalability. In: *International Conference on Big Data*. 561–566, 2014.
7. Wei Hu, Jianfeng Chen, Yuzhong Qu. A Self-Training Approach for Resolving Object Coreference on the Semantic Web. In: *International World Wide Web Conference*. 87–96, 2011.
8. Wei Hu, Jianfeng Chen, Hang Zhang, Yuzhong Qu. How Matchable Are Four Thousand Ontologies on the Semantic Web. In: *Extended Semantic Web Conference*. LNCS 6643, 290–304, 2011.
9. Weiyi Ge, Jianfeng Chen, Wei Hu, Yuzhong Qu. Object Link Structure in the Semantic Web. In: *Extended Semantic Web Conference*. LNCS 6089, 257–271, 2010.
10. Wei Hu, Yuzhong Qu. Discovering Simple Mappings Between Relational Database Schemas and Ontologies. In: *International Semantic Web Conference*. LNCS 4825, 225–238, 2007.
11. Wei Hu, Yuzhong Qu. Block Matching for Ontologies. In: *International Semantic Web Conference*. LNCS 4273, 300–313, 2006.
12. Yuzhong Qu, Wei Hu, Gong Cheng. Constructing Virtual Documents for Ontology Matching. In: *International World Wide Web Conference*. 23–31, 2006.

Patents

1. Wei Hu, Rui Yang, Yuzhong Qu. An Automatic Approach to Semantic Web Object Coreference Resolution Based on Global Key Properties. ZL201310007682.4, 2015/10/28.

Others

1. Research on Ontology Matching in the Semantic Web. *Ph.D. Thesis*. 2009.

“*”: Corresponding author

Professional Service

Member of CIPSC Technical Committee on Language and Knowledge Computation, 2015–

Deputy Secretary General of JSCS Technical Committee on Big Data, 2013–

W3C Advisory Committee Representative of Nanjing University, 2015–

Program Committee Member

ISWC, 2010–2017.

WIMS, 2014–2016.

AAAI, 2012 | 2015 [AI and the Web track].

JIST, 2011–2015 | 2016 [program co-chair] | 2017.

CCKS, 2016 [advanced lectures co-chair] | 2017 [sponsorship co-chair & area co-chair].

CCL, 2016.

NDBC, 2014–2015, 2017.

ICYCSEE, 2017

ISWC Workshop on Ontology Matching, 2006–2017.

ESWC Workshop on Summarizing and Presenting Entities and Ontologies, 2015–2016.

ISWC Workshop on Biomedical Data Mining, Modeling and Semantic Integration, 2015.

ADMA, 2012 [SMR Workshop organizing co-chair] | 2013–2014, 2016.

CSWS, 2010 | 2012 [tutorial co-chair] | 2013 [sponsorship chair] | 2014 [publicity chair].

CWI, 2011 | 2013.

International Workshop on Web-scale Knowledge Representation, Retrieval, and Reasoning, 2010–2013.

International Workshop on Big Web Data, 2013.

International Workshop on Semantic Technology for Smarter Cities, 2013.

WWW, 2008 [poster session] | 2012 [tutorial session].

ASWC Workshop on Data Integration through Semantic Technology, 2008.

Editorial Board Member

International Journal of Big Data Intelligence, 2016.

External Reviewer

National Natural Science Foundation of China (NSFC).

Applied Ontology, Bioinformatics, Chinese Journal of Computers, Computer Science, Frontiers of Computer Science, IEEE Computational Intelligence, IEEE Transactions on Knowledge and Data Engineering, International Journal of Human-Computer Studies, International Journal on Semantic Web and Information Systems, Journal of Biomedical Semantics, Journal of Computer Science and Technology, Journal of Computer Research and Development, Journal of Geochemical Exploration, Journal of Information Science, Journal of Software, Journal of Web Semantics, Knowledge and Information Systems, Semantic Web Journal, Science China Information Sciences, Scientific World Journal, The Computer Journal, World Wide Web Journal.

AAAI 2016, KDD 2017.