

Resume

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EDUCATION

Ph.D. in Computer Science, Iowa State University, Ames, IA, USA. 2007
Dissertation: Representing and Reasoning with Modular Ontologies. Advisor: Vasant Honavar

M.S. in Electrical Engineering, Hefei University of Technology, Hefei, China. 2001
Thesis: Research on Some Key Issues of Synergetic Neural Network. Advisors: Jun Gao and Mengxian Pan

B.S. in Electrical Engineering, Hefei University of Technology, Hefei, China. 1998

RESEARCH INTERESTS

- Semantic Web, Description Logics, Data Integration, Data Mining

SELECTED AWARDS AND HONORS

- **Robert Stewart Research Excellence Award**, Department of Computer Science, Iowa State University. Apr. 2007. (Awarded to 2 students from 150 graduate students)
- **Student Travel Award**, the 2006 IEEE/WIC/ACM International Conference on Web Intelligence (WI), Hong Kong, China, 2006. (awarded to 5 students worldwide).
- **Best Paper Award**, the First Asian Semantic Web Conference (ASWC), Beijing, China, 2006. (4.1%)

SELECTED PROFESSIONAL SERVICES

- Member of Editorial Board, Journal of Emerging Technologies in Web Intelligence, since 2009
- Guest Editor for Journal of Multimedia Tools and Applications, Special Issue on Data Semantics for Multimedia Systems, 2009.
- Tutorial Chair of the 4th Asian Semantic Web Conference (ASWC 2009),
- Co-chair of the AAAI 09 Spring Symposium on Social Semantic Web: where Web 2.0 meets Web 3.0.
- PC member of The 8th International Semantic Web Conference (ISWC 2009)
- PC member of International Joint Conferences on Artificial Intelligence (IJCAI-09).
- PC member of The 6th International Workshop on OWL: Experiences and Directions (OWL ED 2009).
- PC member of The Second International Workshop on Modular Ontologies (WOMO 2007)
- PC member of The First International Workshop on Modular Ontologies (WOMO 2006).

RELATED RESEARCH EXPERIENCES

Postdoctoral Research Associate (Feb. 2008-present), Department of Computer Science, Rensselaer Polytechnic Institute

- On **Web Ontology Language**. Participated in the W3C Web Ontology Language (OWL) Working Group.
- On **Social Semantic Web**. Ongoing work is aimed at developing semantic wiki as a testbed of semantic social web, addressing research problems of ontology construction, ontology reuse, semantic logging, privacy and scalable query answering.

Postdoctoral Research Associate (Aug. 2007-Feb. 2008) and Research Assistant (Aug. 2001-Aug. 2007), Department of Computer Science, Iowa State University

- On **Modular Ontology** (2003-2008). US NSF sponsored project (IIS-0639230 SGER). Developed algorithms and application tools for combining and reasoning with multiple ontologies.
- On **Trust and Privacy on Semantic Web** (2006-2008). Developed algorithms for privacy-preserving inference with hiding knowledge on the semantic web.
- On **Collaborative Ontology Building** (2004-2006). USDA NAGRP Bioinformatics Coordination Program sponsored project. Worked on developing theoretical methods and tools for building ontologies that require collaboration among individual experts or research groups in biological domains.
- On **Semantic Data Integration** (2003-2006). US NSF (IIS 0219699) and NIH (GM 066387) sponsored project. Participated in the INDUS (The Intelligent Data Understanding System) project, worked on algorithms and tools for building and querying semantically heterogeneous, distributed data sources.

TEACHING EXPERIENCES

Computer Science Department, Iowa State University

- **Seminar Organizer and Lecturer** (Summer 2007, Fall 2007 and Spring 2008): Semantic Web.
- **Teaching Assistant** (Fall 2002): *Principles in Artificial Intelligence*, Graduate Course. Gave recitations, graded homeworks and course projects, helped students in lab assignments, and held office hours.

SELECTED PUBLICATIONS

- **Jie Bao**, George Voutsadakis, Giora Slutzki & Vasant Honavar (2009) Package-based Description Logics. Book Chapter in: *Modular Ontologies: Concepts, Theories and Techniques for Knowledge Modularization*. Berlin: Springer. LNCS 5445. pp. 349–371.
- **Jie Bao**, Paul R. Smart & Dave Braines, Gareth Jones & Nigel R. Shadbolt (2009) A Controlled Natural Language Interface for Semantic MediaWiki. In *The 2nd Annual Conference of the International Technology Alliance (ACITA'09)*.
- **Jie Bao**, George Voutsadakis, Giora Slutzki & Vasant Honavar (2008). On the Decidability of Role Mappings between Modular Ontologies. In *the Proceeding of the Twenty-Third Conference on Artificial Intelligence (AAAI 2008)*. (p. 400-405)
- **Jie Bao**, Giora Slutzki & Vasant Honavar (2007). Privacy-Preserving Reasoning on the Semantic Web. In *IEEE/WIC/ACM International Conference on Web Intelligence 2007*. (p. 791-797)
- **Jie Bao**, Giora Slutzki & Vasant Honavar (2007). A Semantic Importing Approach to Knowledge Reuse from Multiple Ontologies. In *Proceedings of Twenty-Second Conference on Artificial Intelligence (AAAI 2007)* (p. 1304-1309)
- **Jie Bao**, Doina Caragea & Vasant Honavar (2007) Query Translation for Ontology-Extended Data Sources. In *AAAI'07 Workshop on Semantic e-Science (SeS'07)*.
- **Jie Bao**, Doina Caragea & Vasant Honavar (2006) On the Semantics of Linking and Importing in Modular Ontologies. In *Proceedings of International Semantic Web Conference (ISWC)* (p. 72-86).
- **Jie Bao**, Doina Caragea & Vasant Honavar (2006) Modular Ontologies - A Formal Investigation of Semantics and Expressivity. In *Proceedings of Asian Semantic Web Conference (ASWC)* (p. 616-631). (**Best Paper Award**)

GRANTS

- NSF Industry-University Research Center for Information Protection, Iowa State University. "**Privacy-Preserving Reasoning with Hidden Knowledge**". Vasant Honavar (PI) with Jie Bao (Co-PI) and Giora Slutzki (Co-PI), \$25,000. 2008.

REFERENCES (Available upon request)

(Updated Aug 25, 2009)