

Kewei Tu

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Information

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Education

- Ph.D. Student, Department of Computer Science, Iowa State University, USA. (2005-Present)
- Master, Department of Computer Science and Engineering, Shanghai JiaoTong University, China. (2002-2005)
- Bachelor, Department of Computer Science and Engineering, Shanghai JiaoTong University, China. (1998-2002)

Experiences

- **Intern (Microsoft Research Asia, Summer 2007&2008)**
I worked with the Data Intelligence and Tools Group on the research of hierarchical graphic models for text processing.
- **Teaching Assistant (Computer Science Department, Iowa State Univ., Aug. 2005 - Present)**
ComS 103: Computer Literacy and Applications, Summer 06 – Fall 08
ComS 342: Principles of Programming Languages, Spring 06
ComS 227: Introduction to Object-Oriented Programming, Fall 05
- **Research Assistant (Apex Data & Knowledge Management Lab, Shanghai JiaoTong Univ., Nov. 2001 – Jun. 2005)**
ORIENT (Ontology engineerIng ENvironment) - A joint project with IBM China Research Lab on an integrated ontology engineering environment based on Eclipse. It includes the research on efficient ontology reasoning, automatic ontology mapping, ontology visualization, and relational database integration in ontological environment. I was the group leader on the university side during Apr 04 – May 05.
Representation and Query of Commodity Features based on Conceptual Graph - A joint research project with IBM China Research Lab on a novel semantic search approach using Conceptual Graphs. We investigated knowledge extraction from natural language, reasoning on Conceptual Graphs, and Conceptual Graph matching for semantic search.
- **Teaching Assistant (Computer Science and Engineering Department, Shanghai JiaoTong Univ., Sep. 2002 – Jan. 2005)**
Computer Graphics
Next Generation Web Infrastructure
Undergraduate Graduation Design & Thesis

Honors

- IBM Excellent Student Scholarship, IBM China, 2004.
- Scholarship of Chinese Academy of Sciences, 2003.

- Excellent Undergraduate Thesis, Shanghai JiaoTong University, 2002.
- "Exceptional Student" of Shanghai JiaoTong University, 2001.
- OOCL Scholarship, Shanghai JiaoTong University, 2001.
- Eaton Scholarship, Shanghai JiaoTong University, 2000.
- University Scholarship, Shanghai JiaoTong University, 1998-2001.

Publications

- Kewei Tu, Vasant Honavar, "Unsupervised Learning of Probabilistic Context-Free Grammar Using Iterative Biclustering". In *Proceedings of 9th International Colloquium on Grammatical Inference (ICGI 2008)*, LNCS 5278, St Malo, Brittany, France, September 22-24, 2008.
- KeWei Tu, Miao Xiong, Lei Zhang, HaiPing Zhu, Jie Zhang and Yong Yu, "Towards Imaging Large-Scale Ontologies for Quick Understanding and Analysis". In *Proceedings of the Fourth International Semantic Web Conference (ISWC2005)*, LNCS 3729/2005, Galway, Ireland, November 6-10, 2005.
- Jing Lu, Yong Yu, Kewei Tu, Chenxi Lin and Lei Zhang, "An Approach to RDF(S) Query, Manipulation and Inference on Databases". In *Proceedings of the 6th International Conference on Web-Age Information Management (WAIM2005)*, LNCS 3739/2005, Hangzhou, China, October 11-13, 2005.
- KeWei Tu, "Automatic Ontology Mapping by Combining Multiple Strategies" (in Chinese). *Master thesis*. Jan 2005.
- KeWei Tu, Yong Yu, "CMC: Combining Multiple Schema-Matching Strategies based on Credibility Prediction". In *Proceedings of the 10th International Conference on Database Systems for Advanced Applications (DASFAA 2005)*, LNCS 3453, Beijing, China, April 17-20, 2005.
- KeWei Tu, ChenXi Lin, Yong Yu, "Complex-Mapping Oriented Schema Mapping Composition". *Technical report*. Sept 2004.
- Lei Zhang, Yong Yu, Jing Lu, Chenxi Lin, KeWei Tu, MingChuan Guo, Zhuo Zhang, GuoTong Xie, Zhong Su, Yue Pan, "ORIENT: Integrate Ontology Engineering into Industry Tooling Environment". In *Proceedings of the 3rd International Semantic Web Conference (ISWC2004)*, LNCS 3298, Hiroshima, Japan, Nov.7-11, 2004.
- Kewei Tu, Jing Lu, Haiping Zhu, Guowei Liu, Yong Yu, "A Semantic Search Approach by Graph Matching with Negations and Inferences", In *Proceedings of the 11th International Conference on Conceptual Structures (ICCS 2003)*, LNCS 2746, Dresden, Germany, July 21-25, 2003.

Skills

- Computer skills: Java, C/C++, Matlab, Scheme (Lisp); Eclipse Plug-in Development, JSP; LaTeX.