

DEYI XIONG

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Human Language Technology
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EDUCATION

Fall 2002 – Spring 2007
PhD in Computer Science
Institute of Computing Technology
Chinese Academy of Sciences

Fall 2002 – Spring 2003
Graduate School of the Chinese Academy of Sciences

Fall 1998 – Spring 2002
Bachelor in Computer Science
Computer Science and Technology Department
China University of Geosciences (Wuhan)

RESEARCH INTERESTS

Natural Language Processing (Statistical Parsing, Statistical Machine Translation), Machine Learning

PUBLICATIONS

Theses

Deyi Xiong. Research on Statistical Machine Translation Based on Bracketing Transduction Grammar and Dependency Grammar. Ph.D. Thesis. Chinese Academy of Sciences. 2007.

Selected Publications

Deyi Xiong, Min Zhang, Haizhou Li. A Maximum Entropy Segmentation Model for Statistical Machine Translation. *IEEE Transactions on Audio, Speech and Language Processing*. 2011

Deyi Xiong, Min Zhang, Haizhou Li. Enhancing Language Models in Statistical Machine Translation with Backward N-grams and Mutual Information Triggers. In *Proceedings of ACL 2011*.

- Deyi Xiong**, Min Zhang, Aiti Aw, Haizhou Li. Linguistically Annotated Reordering: Evaluation and Analysis. *Computational Linguistics*. 2010
- Deyi Xiong**, Min Zhang, Haizhou Li. Error Detection for Statistical Machine Translation Using Linguistic Features. In *Proceedings of ACL 2010*.
- Deyi Xiong**, Min Zhang, Haizhou Li. Learning Translation Boundaries for Phrase-Based Decoding. In *Proceedings of NAACL-HLT 2010*.
- Deyi Xiong**, Min Zhang, Aiti Aw and Haizhou Li. A Syntax-Driven Bracketing Model for Phrase-Based Translation. In *proceedings of ACL-IJCNLP 2009*.
- Deyi Xiong**, Min Zhang, Ai Ti Aw, and Haizhou Li. A Source Dependency Model for Statistical Machine Translation. In *proceedings of MT Summit XII*. 2009.
- Deyi Xiong**, Min Zhang, Ai Ti Aw, and Haizhou Li. Efficient Beam Thresholding for Statistical Machine Translation. In *proceedings of MT Summit XII*. 2009.
- Deyi Xiong**, Min Zhang, Ai Ti Aw, and Haizhou Li. Linguistically Annotated BTG for Statistical Machine Translation. In *proceedings of COLING 2008*.
- Deyi Xiong**, Min Zhang, Ai Ti Aw, and Haizhou Li. A Linguistically Annotated Reordering Model for BTG-based Statistical Machine Translation. In *proceedings of ACL 2008*.
- Deyi Xiong**, Min Zhang, Ai Ti Aw, Haitao Mi, Qun Liu and Shouxun Lin. Refinements in BTG-based Statistical Machine Translation. In *proceedings of IJCNLP 2008*.
- Deyi Xiong**, Qun Liu, and Shouxun Lin. A Dependency Treelet String Correspondence Model for Statistical Machine Translation. In *Proceedings of Second Workshop on Statistical Machine Translation in ACL*. 2007.
- Deyi Xiong**, Qun Liu, and Shouxun Lin. Maximum Entropy Based Phrase Reordering Model for Statistical Machine Translation. In *Proceedings of COLING-ACL 2006*, Sydney, Australia.
- Deyi Xiong**, Shuanglong Li, Qun Liu, Shouxun Lin, Yueliang Qian. Parsing the Penn Chinese Treebank with Semantic Knowledge. Lecture Notes in Computer Science, Springer-Verlag, Volume 3651, Sep 2005, Pages 70 - 81. In *Proceedings of the Second International Joint Conference on Natural Language Processing (IJCNLP05)*, Jeju Island, Korea.
- Deyi Xiong**, Hongkui Yu, Qun Liu. Tagging Complex NEs with MaxEnt Models: Layered Structures Versus Extended Tagset. Lecture Notes in Computer Science, Springer-Verlag, Volume 3248, Jan 2005, Pages 537 - 544. In *Proceedings of 1st International Joint Conference on Natural Language Processing (IJCNLP-04)*. 2004. SanYa, China.

Huaping Zhang, Hongkui Yu, **Deyi Xiong** and Qun Liu. 2003. HHMM-based Chinese Lexical Analyzer ICTCLAS. In the Second SIGHAN workshop affiliated with 41th ACL, Sapporo Japan.

PROFESSIONAL ACTIVITIES

Conference Reviewing: ACL, NAACL, EMNLP, COLING, IJCNLP, MT SUMMIT

Journal Reviewing: *ACM Transactions on Asian Language Information Processing*, *ACM Transactions on Intelligent Systems and Technology*, *Journal of Computer Science and Technology*, *International Journal of Computer Processing of Language*

Other: Co-chair of *fifth international workshop on cross lingual information access*, Council member of *Chinese and Oriental Languages Information Processing Society*

HONORS AND AWARDS

Sony Award 2005 Third Prize

Research Award of Year 2008 in I2R

Beijing Science and Technology Award Second Prize 2009

LANGUAGES

Chinese (native language)

English (fluent)