Hao Zhou

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Research Interest

My research interest includes structured prediction problems in natural language processing. I work on word segmentation, POS-tagging and syntactic parsing, as well as neural machine translation.

Education

Ph.D. Computer Science and Technology, Nanjing University, **2012–2017** (expected).
Master-Doctorate Program Advisor: *Prof. Jiajun Chen*.

B.S. Computer Science and Technology, Nanjing Normal University, **2008–2012**.
Admitted to grad school w/o entrance exam (rank top 2%)

Employments

Research Intern Sep. 2016 - Feb. 2017
Huawei Noah's Ark Lab, Hong Kong
Mentor: *Zhaopeng Tu*
Topic: Neural machine translation.

Visiting Student Oct. 2014 - Mar. 2015
Singapore University of Technology and Design, Singapore
Mentor: *Yue Zhang*
Topic: Neural network based structured-prediction model.

Publication

Hao Zhou, Yue Zhang, Chuan Cheng, Shujian Huang, Junsheng Zhou, Xinyu Dai, Jiajun Chen: A Neural Probabilistic Structured-Prediction Method for Transition-Based Natural Language Processing. Journal of Artificial Intelligence Research (JAIR, 2017).

Hao Zhou, Yue Zhang, Shujian Huang, Junsheng Zhou, Xinyu Dai, Jiajun Chen: A Search-Based Dynamic Reranking Model for Dependency Parsing. In Proceeding of ACL 2016.

Hao Zhou, Yue Zhang, Shujian Huang, Xinyu Dai, Jiajun Chen: Evaluating a Deterministic Shift-Reduce Neural Parser for Constituent Parsing. In Proceeding of LREC 2016.

Hao Zhou, Shujian Huang, Junsheng Zhou, Yue Zhang, Huadong Chen, Xinyu Dai, Chuan Cheng, Jiajun Chen: Enhancing Shift-Reduce Constituent Parsing with Action N-Gram Model. ACM Trans. Asian & Low-Resource Lang. Inf. Process. 15(3): 13 (2016).

Hao Zhou, Yue Zhang, Shujian Huang, Jiajun Chen: A Neural Probabilistic Structured-Prediction Model for Transition-Based Dependency Parsing. In Proceeding of ACL 2015: 1213-1222

Projects

SnnOw https://github.com/zhouh/snnow
A fast and accurate NLP toolkit based on deep learning.

NJU-Parser https://github.com/zhouh/NJU-Parser
A fast implementation of widely used transition-based parser ZPar in Java.

Technique Summary

Programming Languages: C/C++, Java

Operating Systems: Linux

Experience: Git, Valgrind, Theano, Deeplearning4J, ND4J, Mshadow, ZPar

Service

Reviewer / Secondary Reviewer: LREC 2016, NAACL 2016, IJCAI 2016.

Honors and Awards

National Scholarship, 2016

National Scholarship, 2011

The First Prize Scholarship, 2011

Fei Xiaotong Scholarship, 2011

National Encouragement Scholarship, 2010

Zhu Jingwen Scholarship, 2010