

Yukun Feng

Personal Details

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Education

BSc. in Computer Science and Technology 2012-2016
College of Information Sciences, Beijing Language and Culture University, China
Overall GPA: 86.8/100 Major GPA: 91.5/100 Comprehensive grade ranking: 1/42
TOEFL: 89 (Not good due to busy full-time work)

Work Experience

Assistant Researcher 02/2017-present
Speech Technology Department, Sogou Inc., Beijing, China

- Developing industrial scale neural language model for speech recognition.
- Interpolation between neural language model and N-gram model. The final system improves 33% performance on previous N-gram model and reduces 10% word error rate.

R & D Engineer 07/2016-02/2017
Speech Technology Department, Baidu Inc., Beijing, China

- Build and support spoken language parsing system.

R & D Engineer Intern 05/2015-02/2016
Speech Technology Department, Baidu Inc., Beijing, China

- Automatic dialogue evaluation system.
- Chinese address parser based on finite-state transducer.

Research Experience (undergraduate work)

Lexical Semantic 2015-2016

- Description: I mainly aim at designing end-to-end deep learning models for identifying semantic frame structure and extraction of lexical unit's arguments. My work is different from many previous works in which local feature extraction of the targets is widely used.
- Project output: 3 papers

Neural Network Implementation Project 2015-2016

- Description: I like developing. Mainly based on Python and Numpy, I implemented MLP, RNN, LSTM, Bidirectional LSTM, neural attention models as well as some nonstandard networks and some evaluation metrics for classification, clustering and ranking problems when I learn these stuffs. Through this personal interest project, I have a very deep understanding of these complex models and also have a very strong implementation ability.
- Project output: github.com/fengyukun/nnfl

Language Model 2013-2014

- Description: I did some researches about language modeling from N-gram model to the state-of-the-art neural model at that time. I wrote 22 Chinese technology blogs (now 130,000 visit) about this topic and I also implemented a toolkit of MLP-based language model.
- Project output: blog.csdn.net/a635661820

Publications

1. **Yukun Feng**, Dong Yu, Jian Xu and Chunhua Liu, "Semantic Frame Labeling with Target-based Neural Model", *ACL 2017 Joint Conference on Lexical and Computational Semantics (*SEM 2017, acceptance rate 36%)*.
2. **Yukun Feng**, Yipei Xu and Dong Yu, "An end-to-end approach to learning semantic frames with feedforward neural network", *NAACL 2016 Student Research Workshop, (undergraduate track)*.
3. **Yukun Feng**, Qiao Deng, and Dong Yu, "Bleunlp: Corpus pattern analysis for verbs based on dependency chain", *NAACL 2015 Workshop on Semantic Evaluation (SemEval-2015)*.

Academic Activity

Poster in *SEM 2017, Vancouver, Canada	07/2017
Poster in NAACL 2016 SRW, San Diego, USA	06/2016

Awards and School Activity

National Endeavor Fellowship in China for 3 times	2012-2015
Class Monitor, Beijing Language and Culture University	2012-2016
Table Tennis Team Member, Beijing Language and Culture University	2014-2015

Skills

<i>Computer</i>	proficient in linux shell, c/c++, python and vim
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