Xiaowan Li

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Education

Nanjing University 2014-present

M.S., Computer Science and Technology, Natural Language Processing Group

Soochow University 2010-2014

B.S., Computer Science and Technology

- Major GPA: 3.7/4
- GPA: 3.6/4

Research Experience

Pairwise Ranking via Comparisons with Convolution Neural Networks
Supervisor: Shujian Huang, Ph.D 02/2016 - present

- Design architectures based on Neural Networks and convolution kernel to do comparison in pairwise ranking
- Extract Coordinates in CTB; Reranking n-best translations in SMT; Pairwise Ranking in Information Retrieval

Resolving Coordinate Structures in Chinese Constituent Parsing
Supervisor: Shujian Huang, Ph.D 04/2015 - 10/2015

- Designed labels used in CRF to do sequence labeling to get candidates
- Extracted features to represent global information for reranking
- Re-composed conjuncts in different hypotheses

Statistical Machine Translation (SMT) Project
Supervisor: Shujian Huang, Ph.D 07/2014 - 01/2015

- Ran a SMT system using domain data provided by company whom we cooperate
- Improved BLEU scores of SMT by introducing more data and changing the distribution of domain data
- Wrote technical report: algorithm research report, experiments report, and application for Software Copyright
- Designed a control system based on Webservice

Extracurricular Academic Research Foundation of Soochow University
Supervisor: Fei Zhu, Ph.D 04/2012 - 09/2012

- Read papers to summarize current Machine Learning methods used on Biological Data

Journal Publications

1. **Xiaowan Li**, Fei Zhu. "On Clustering Algorithms for Biological Data". Engineering, 2013.

Papers in Preparation

1. **Xiaowan Li**, Shujian Huang, Xinyu Dai and Jiajun Chen."Pairwise Ranking via Comparisons with Convolution Neural Networks."

Software

- Software Copyright of Machine Translation Flow Control Software, V1.0. No.00572775, 2014.

Skills

- Machine Learning: familiar with NB/LR/SVM/CRF/Boosting/Neural Networks
- Deep Learning: solid knowledge of CNN, familiar with LSTM/RNN/GRU, frequent use of CNTK/Tensorflow
- NLP: solid knowledge of SMT/Pairwise Ranking, familiar with Learning to Rank/Parsing
- Programming Skills: proficiency in C, frequent use of Python/Java
- Operating Systems: Windows, Linux

Awards and Honors

- Outstanding Graduates of Computer Science and Technology, Soochow University 2011-2014
- First-Class Scholarship of Soochow University 2011-2012
- First-Class Scholarship of Rilixianshiqi, Soochow University 2011-2012
- Honorable Winner in MCM (Mathematical Contest in Modeling) 2013
- People scholarship, Soochow University 2013-2014
- National Encouragement scholarship, **Two-time winner** 2010-2012
- Second-Class Scholarship of Soochow University, **Two-time winner**

Professional Experience

- TA of Advanced Programming, Nanjing University 02/2015-06/2015
- TA of C Programming Language, Soochow University 2013

Standard Test

- TOEFL (iBT): 99 06/2016
- GRE: 153+170+3.5 02/2016