Tao Ji

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Personal

Research: My main research interests lie within deep learning for natural language processing. I am particularly interested in Dependency Parsing and Cross-Lingual Technology.

Course: Average score 89.6.
Outstanding Course: Advanced Machine Learning – 97 points, Text Mining – 98 points.

Code: C++ & Python. Participated in the NOIP and ACM-ICPC programming competitions.

Education

2017 - Present: M.S. student at East China Normal University

2013 - 2017: B.Eng from East China Normal University

Publications

AntNLP at CoNLL 2018 Shared Task: A Graph-based Parser for Universal Dependency Parsing
Tao Ji, *Yufang Liu, Yijun Wang, Yuanbin Wu, Man Lan*
In CoNLL 2018 shared task.

ECNU at EPE 2017: Universal Dependencies Representations Parser
Tao Ji, *Yuekun Yao, Qi Zheng, Yuanbin Wu, Man Lan*
In IWPT 2017.

A Fast and Lightweight System for Multilingual Dependency Parsing
Tao Ji, *Yuanbin Wu, Man Lan*
In CoNLL 2017 shared task.

Projects

AntU (https://github.com/AntNLP/antu)

AntU is a generic NLP tool library that contains data processing modules and neural network components. I am one of the main designers and developers of the tool library.

Module:

Data IO processing.

Auxiliary Tools. (Logger, Sampler...)

Neural Network Encoder. (LSTM, Transformer...)

Neural Network Decoder. (Tree-LSTM, Softmax...)

Common Neural Network Structures. (MLP, Attention...)

ECNU-Parser (https://github.com/JT-Ushio/ECNU-Parser/tree/conll18)

ECNU-Parser is a multi-language dependency parsing library based on Dynet, which realizes and improves the "Deep Biaffine Parser". Based on the UD 2.0 Treebank, we have trained multilingual parser that support 57 languages, trained monolingual models and delexical multilingual models separately in rich resource languages, and used algorithms to find the most effective delexical multilingual model for migration in low resource languages. I'm the main developer of the tool library.

Performance: We obtain 70.90 average LAS on 82 UD treebank testsets. Ranked 9/26 on CoNLL2018 shared tasks (http://universaldependencies.org/conll18/results.html).

Selected Awards

National Scholarship, 2018

Outstanding undergraduate thesis Award, East China Normal University, 2017

First Prize in Chinese undergraduate computer design contest (8th), 2015

Silver Medal in ACM-ICPC Asia EC-FINAL Contest, 2015

Silver Medal in ACM-ICPC Asia Xian Regional Contest, 2014