

Changzhi Sun

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Research Interests

Information Extraction, Entity Relation Extraction, Deep Learning for Natural Language Processing.

Education

Ph.D. Compute Science, East China Normal University, 2019.

B.S. Compute Science, Anhui Normal University, 2014.

Publications

Proceedings

BiGCNN: Bidirectional Gated Convolutional Neural Network for Chinese Named Entity Recognition
Tianyang Zhao, Haoyan Liu, Qianhui Wu, **Changzhi Sun**, Dongdong Zhan and Zhoujun Li.
DASFAA 2020

Joint Type Inference on Entities and Relations via Graph Convolutional Networks.

Changzhi Sun, Yeyun Gong, Yuanbin Wu, Ming Gong, Daxin Jiang, Man Lan, Shiliang Sun and Nan Duan.

ACL 2019, [pdf] [code].

Distantly Supervised Entity Relation Extraction with Adapted Manual Annotations.

Changzhi Sun, Yuanbin Wu.

AAAI 2019, [pdf] [code].

Extracting Entities and Relations with Joint Minimum Risk Training.

Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun, Wenting Wang, Kuang-Chih Lee, and Kewen Wu.
EMNLP 2018, [pdf] [code].

Large-scale Opinion Relation Extraction with Distantly Supervised Neural Network.

Changzhi Sun, Yuanbin Wu, Man Lan, Shiliang Sun and Qi Zhang.

EACL 2017, [pdf] [data].

Experience

East China Normal University *Sep. 2014 - Dec. 2019*

Group: Natural Language Processing Group
Position: Ph.D candidate
Supervisor: Yuanbin Wu
Thesis: Joint Entity Relation Extraction with Deep Learning

Microsoft Research Asia *Dec. 2018 - May. 2019*

Group: Natural Language Computing (NLC)
Position: Intern
Host: Nan Duan
Project1: Joint Type Inference on Entities and Relations
Project2: Knowledge-based Question Classification
Project3: Title-Keyword Generation

Projects

AntNRE (<https://github.com/changzhisun/AntNRE>)

AntNRE is a neural entity relation extraction package built on PyTorch. It aims to provide efficient and flexible toolkits for building information extraction systems.

Modularity: AntNRE contains modules which can be used as building blocks for various entity relation extraction systems. For example,

Encoders: CNN/RNN-based word representations, CNN/RNN-based sequence modelling, GCN-based node representations.

Entity Models: sequence labelling with RNN + CRF.

Relation Models: feature-enriched PCNN.

Flexibility: One could use the package to implement many state-of-the-art entity relation extraction systems. For example,

Joint entity relation extraction model.

Minimum risk training based model.

Multi-task joint entity relation extraction model.

GCN-based joint entity relation extraction model.

Performance: Systems built on AntNRE are able to achieve state-of-the-art relation extraction performances on benchmark datasets (ACE05, NYT).

Future Plan: More advanced systems will be integrated in the future. For example,

Multi-instance multi-label models.

Deep latent models.

Academic Activities

Secondary reviewer of ACL(2017), EMNLP(2018), AAAI(2020, 2019), IJCAI(2020, 2019).

Conference PC member: ACL(2020)

Teaching

TA of Operating System Labs: Fall 2015.