Zhuang Chen

Curriculum Vitae

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EDUCATION

2018.09-Present **Wuhan University**, Wuhan Hubei 430072, China
PhD student on Computer Software and Theory

2014.09-2016.07 **HuaZhong University of Science and Technology**, Wuhan Hubei 430074, China
Master of Engineering on Integrated Circuit

2009.09-2013.07 **HuaZhong University of Science and Technology**, Wuhan Hubei 430074, China
Bachelor of Engineering on Electronic Science and Technology

EXPERIENCE

2016.07-2018.05 **ZTE R&D Department**, Nanjing Jiangsu 210012, China
Digital Circuit Design Engineer

RESEARCH INTERESTS

Sentiment Analysis & Information Extraction

I have lots of experience in aspect-based sentiment analysis, aspect extraction, relation extraction, etc. I am familiar with relevant methods like transfer learning, multi-task learning, domain adaptation, etc.

Pretrained Language Models

I have experience and interests in various pretrained language models like BERT, BART, GPT, etc. I am familiar with the pre-training, fine-tuning, and prompt-tuning methods of PLMs.

PUBLICATIONS

[1] Bridge-Based Active Domain Adaptation for Aspect Term Extraction
Zhuang Chen, Tieyun Qian. (ACL 2021, CCF-A Conference)

[2] Enhancing Aspect Term Extraction with Soft Prototypes
Zhuang Chen, Tieyun Qian. (EMNLP 2020, CCF-B Conference)

[3] Relation-Aware Collaborative Learning for Unified Aspect-Based Sentiment Analysis
Zhuang Chen, Tieyun Qian.(ACL 2020, CCF-A Conference)

[4] Transfer Capsule Network for Aspect Level Sentiment Classification
Zhuang Chen, Tieyun Qian. (ACL 2019, CCF-A Conference)

[5] Aspect Aware Learning for Aspect Category Sentiment Analysis
Peisong Zhu, **Zhuang Chen**, Haojie Zheng, Tieyun Qian. (TKDD 2019, CCF-B Journal)

[6] Generating Pseudo Connectives with MLMs for Implicit Discourse Relation Recognition
Congcong Jiang, Tieyun Qian, **Zhuang Chen**, et al. (PRICAI 2021, CCF-C Conference)

[7] Aspect-Level Sentiment Classification with Dependency Rules and Dual Attention
Yunkai Yang, Tieyun Qian, **Zhuang Chen**. (ICONIP 2019, CCF-C Conference)

Two more first-author papers are submitted to TASLP and WWWJ (CCF-B Journal).

PATENTS

[1] A Method, Device, Equipment and Readable Storage Medium for Text Classification
Jing Zhu, 4 more authors , Tieyun Qian, Xuhui Li, **Zhuang Chen** (CN patent, 111611379A)

[2] A Pixel Voltage Reading Circuit for Continuous Narrow Current Pulse
Guoyi Yu, **Zhuang Chen**, Wei Huang (CN patent, 105425012A)

[3] An Active Address Coding and Output Circuit for APD array
Guoyi Yu, Wei Huang, **Zhuang Chen** (CN patent, 105406856A)

[4] A Four-Channel Selection Circuit for Output Voltage of APD Pixel Block
Guoyi Yu, Wei Huang, **Zhuang Chen** (CN patent, 105357820A)

AWARDS

[1] Outstanding Graduate Award, Wuhan University, 2019, 2020

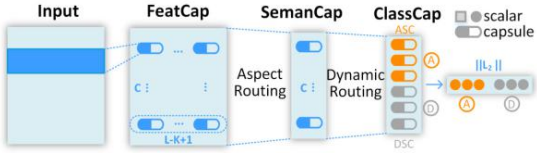
[2] Outstanding Academic Scholarship, Wuhan University, 2019, 2020

[3] Star Teacher Scholarship, Wuhan University, 2019, 2020

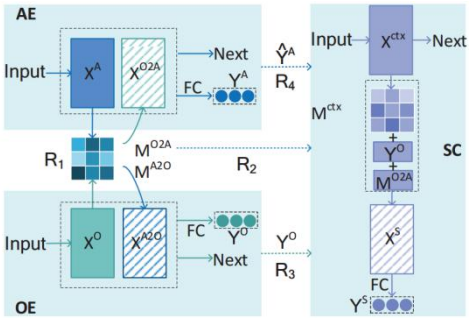
[4] Second-Class Scholarship of Doctoral Forum, Wuhan University, 2019, 2020

INVOLVED PROJECTS

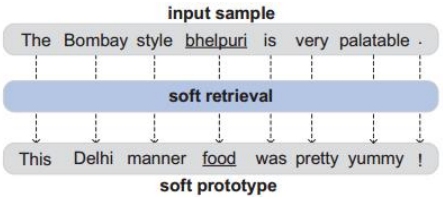
[1] **Aspect-level Sentiment Classification**
(2018.06-2019.03, at WHU)
Due to the high cost of annotation, the lack of labeled data becomes a major obstacle in the area of aspect-level sentiment classification. We propose a transfer capsule network for transferring the document-level knowledge to the aspect-level task.



[2] **Unified Aspect-based Sentiment Analysis**
(2019.04-2019.12, at WHU)
The interactive relations among subtasks in ABSA are under-exploited. We propose a relation-aware collaborative learning framework which allows the subtasks to work coordinately via multi-task learning and relation propagation.



[3] **Aspect Term Extraction**
(2020.01-2020.06, at WHU)
Since the aspect terms and context words usually exhibit long-tail distributions, sequence taggers often converge to an inferior state. We propose to tackle this problem via soft prototypes generated by a soft retrieval process.



[4] **Active Domain Adaptation on ATE**
(2020.07-2021.03, at WHU)
As a fine-grained task, the annotation cost of aspect term extraction is extremely high. We propose a novel active domain adaptation method to transfer aspect terms by actively supplementing transferable knowledge.