Qingyue Wang

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Education

University of Chinese Academy of Sciences Aug 2018 – Jun 2024
Ph.D Student of Cyber Security ***GPA****: 3.7/4 (Top 10%)* *Beijing, China*
Thesis: Multi-slot Joint Learning for Dialogue State Tracking.

Henan University Aug 2014 – Jun 2018
Bachelor of Network Engineering ***GPA****: 3.8/4 (Top 5%)* *Kaifeng, China*

Research Experience

Recursively Summarizing Enables Long-Term Dialogue Memory in LLMs Jun. 2023 – Present
- We recursively generate summaries to help LLMs to realize long-term memory. It was a potential solution to enable the LLMs to model the extremely long context without expensively expanding the max length setting.
- Our model can generate more consistent responses in a long-context (multi-session) conversation; It has attracted interests of venture companies.

Mixture of Semantic-Independent Experts for Dialogue State Tracking Sept 2022 – Feb 2023
- We propose a simple and effective solution, which explicitly disentangles the semantics of seen data, and can improve the model's performance and robustness using the mixture-of-experts mechanism.
- We achieve averaging 5%∼10% improvement on the benchmark with negligible training and deployment costs; The paper was accepted by ACL as an oral.

Slot Dependency Modeling for Zero-shot Dialogue State Tracking Oct 2021 – May 2022
- We propose a prompt-based approach to model three dependencies on slots, i.e. slot-slot dependency, slot-value dependency and slot-context dependency in dialog state tracking.
- The paper was accepted by COLING as an oral; It has been a common-used baseline in slot dependency modeling.

Publications & Works

[1].**Qingyue Wang**, Liang Ding, Yanan Cao, Yibing Zhan, Zheng Lin, Dacheng Tao and Li Guo. *Divide, Conquer, and Combine: Mixture of Semantic-Independent Experts for Zero-Shot Dialogue State Tracking*, ACL 2023, CCF-A.
[2].**Qingyue Wang**, Yanan Cao, Piji Li, Yanhe Fu and Li Guo. *Slot Dependency Modeling for Zero-shot Cross-domain Dialogue State Tracking*, COLING 2022.
[3].**Qingyue Wang**, Yanan Cao, Piji Li, Zheng Lin, Yanhe Fu, Zheng Lin and Li Guo. *Confident Slot Iterative Learning for Multi-Domain Dialogue State Tracking*, CogSci 2023, CCF-B.
[4].**Qingyue Wang**, Liang Ding, Yanan Cao, Zhiliang Tian, Shi Wang, Dacheng Tao and Li Guo. *Recursively Summarizing Enables Long-Term Dialogue Memory in Large Language Models*, awaiting submission.
[5].Yu Liu, Yanan Cao, Shi Wang, **Qingyue Wang** and Guanqun Bi. *Generative Models for Complex Logical Reasoning over Knowledge Graphs*, WSDM 2023, CCF-B.
[6].**Qingyue Wang**, Yanan Cao, Yafang Wang and Li Guo. *Incorporating Specific Knowledge into End-to-End Task-oriented Dialogue Systems*, the International Joint Conference on Neural Networks, IJCNN 2021, CCF-C.
[7].**Qingyue Wang**, Hao Liu, Yanan Cao and Li Guo. *A Sequence Transformation Model for Chinese Named Entity Recognition*, KSEM 2018, CCF-C.
[8].Yanhe Fu, Yi Liu, Yanan Cao, Yubing Ren, **Qingyue Wang**, Fang Fang and Cong Cao *A Multi-granularity Similarity Enhanced Model for Implicit Event Argument Extraction*, NLPCC 2023, CCF-C.

Awards & Certificates

Doctoral National Scholarship (Top 0.2%) Oct 2023
Student Travel Award (CogSci Conference) Jun 2023
Merit Students of University of Chinese Academy of Sciences Sept 2019
Outstanding Graduates of Henan Province Jun 2018

Others

Technical Skills: Python, Deep Learning Tools (Pytorch, Tensorflow), Matlab, Linux
Project Experiences: Detection of Texts Generated by LLMs (Core Member)