Hui Liu

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https://layneins.github.io

Education

Queen's University, Canada   Sep 2019 - present
Ph.D in Electrical and Computer Engineering
Advisor: Prof. Xiaodan Zhu

Peking University, China   Sep 2014 - Jun 2018
B.S. in Computer Science
Advisor: Prof. Xiaojun Wan

Research Interests

I am currently interested in low resource language learning and dialogue representation learning. I am also interested in the explainability and interpretability of natural language models.

Publications

1. "Unsupervised Conversation Disentanglement through Co-Training"
   Hui Liu, Zhan Shi, Quan Liu, Xiaodan Zhu
   EMNLP 2021, long paper

2. "Retrieval, Analogy, and Composition: A framework for Compositional Generalization in Image Captioning"
   Zhan Shi, **Hui Liu**, Martin Renqiang Min, Christopher Malon, Li Erran Li, Xiaodan Zhu
   Findings of EMNLP 2021, long paper

3. "Enhancing Descriptive Image Captioning with Natural Language Inference"
   Zhan Shi, **Hui Liu**, Xiaodan Zhu
   ACL-IJCNLP 2021, short paper

4. "Partner Matters! An Empirical Study on Fusing Personas for Personalized Response Selection in Retrieval-Based Chatbots"
   Jia-Chen Gu, **Hui Liu**, Zhen-Hua Ling, Quan Liu, Zhigang Chen, Xiaodan Zhu
   SIGIR 2021, full paper

5. "Improving Pretrained Models for Zero-shot Multi-label Text Classification through Reinforced Label Hierarchy Reasoning"
   Hui Liu, Danqing Zhang, Bing Yin, Xiaodan Zhu
   NAACL-HLT 2021, long paper

6. "Have You Made A Decision? Where? A Pilot Study on Interpretability of Polarity Analysis Based on Advising Problem"
   Tianda Li, Jia-Chen Gu, **Hui Liu**, Quan Liu, Zhen-hua Ling, Zhiming Su, Xiaodan Zhu
   ICASSP 2021, full paper

7. "End-to-End Transition-Based Online Dialogue Disentanglement"
   Hui Liu, Zhan Shi, Jia-Chen Gu, Quan Liu, Si Wei, Xiaodan Zhu
   IJCAI 2020, full paper

8. "Towards Explainable NLP: A Generative Explanation Framework for Text Classification"
   Hui Liu, Qingyu Yin, William Yang Wang
   ACL 2019, long paper

9. "QuoteRec: Towards Quote Recommendation for Writings"
   Jiwei Tan, Xiaojun Wan, **Hui Liu**, Jianguo Xiao
   ACM Transactions on Information Systems (TOIS), 2018

Experience

Applied Scientist Intern
Jul 2020 - Dec 2020

Search Science and AI Group, Amazon, Palo Alto, California, US

Research Intern
Jan 2018 - May 2018

Lenovo AI Lab, Lenovo, Beijing, China

Academic Services

Program Committee: EMNLP 2021

Teaching

1. Teaching Assistant, ELEC 425: Machine Learning and Deep Learning, Queen's University, Fall 2021

2. Teaching Assistant, CISC/SOFT 423 Software Requirements, Queen's University, Winter 2021

3. Teaching Assistant, ELEC 373 Computer Networks I, Queen's University, Winter 2020

4. Teaching Assistant, ELEC 425/825 Machine Learning and Deep Learning, Queen's University, Fall 2019