

Danqing Wang

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Research Interest: Natural Language Processing, Text Summarization, Graph Neural Network

Project: <https://github.com/dqwang122>

Research Experience

- **Heterogeneous Graph Neural Networks for Extractive Document Summarization** ACL 2020
*Danqing Wang**, Pengfei Liu*, Yining Zheng, Xipeng Qiu and Xuanjing Huang
 - Long paper 📄
 - Introduce word nodes to model the cross-sentence relationship for extractive summarization
 - Easily adapt the graph model from single to multiple document summarization
- **Extractive Summarization as Text Matching** ACL 2020
*Ming Zhong**, Pengfei Liu*, Yiran Chen, **Danqing Wang**, Xipeng Qiu and Xuanjing Huang
 - Long paper 📄
 - Formulate extractive summarization as a semantic text matching problem and select sentences in summary-level.
 - Achieve superior performance on six benchmark datasets, including state-of-the-art extractive result on CNN/DailyMail
- **Searching for Effective Neural Extractive Summarization: What Works and What's Next** ACL 2019
*Ming Zhong**, Pengfei Liu*, **Danqing Wang**, Xipeng Qiu, Xuanjing Huang
 - Long paper, oral presentation 📄
 - Models with autoregressive decoder are prone to achieving better performance against non auto-regressive ones.
 - LSTM is more likely to suffer from the architecture overfitting problem while Transformer is more robust.
- **A Closer Look at Data Bias in Neural Extractive Summarization Models** EMNLP 2019
*Ming Zhong**, **Danqing Wang***, Pengfei Liu*, Xipeng Qiu, Xuanjing Huang
 - Workshop on New Frontiers in Summarization 📄
 - Define four measures in two categories (*constituent factor* and *style factors*) to quantify the characteristics of summarization datasets.
 - Make use of the in-depth analysis and build a more powerful model.
- **Machine Learning and Natural Language Computing Intern** Shanghai
2020.4 - Current
AI-Lab, ByteDance
 - Mainly focus on multilingual abstractive summarization

Education

- **Master in Computer Science** Fudan Univerisity
2018 – Current
Advisor: Prof. Xipeng Qiu and Prof. Xuanjing Huang
GPA: 3.72/4.0 Ranking: 15/225
- **Bachelor in Computer Science and Technology** Fudan Univerisity
2014 – 2018
English: CET-6
GPA: 3.62/4.0 Ranking: 10/74

Skills

- **Language:** Python > C++ > C
- **Framework:** Pytorch > Tensorflow