Zhao Qiuhan

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Research Interests

I am interested in Natural Language Processing and Data Science. I believe that with the help of NLP technology, we can discover the potential features behind scientific data(literature, patent etc.) and assist the government or related institutions to make better decision in the future. My current focuses include:

- NLP-related topics, such as text classification, summarization and recommendation.
- Deep learning models or methods for better language understanding and representive.
- Big data analysis in practical social data and time-series data.
- Bibliometrics and patent data analysis.

Education

University of Tokyo Tokyo, Japan
Research student & PH.D candidate in Technology Management for Innovation *Oct 2021 –*
Advisor: Prof. Motohashi Kazuyuki

Beijing University of Posts and Telecommunications Beijing, China
Master of Engineering in Computer Science & Information Security *Sept 2017 – Jun 2020*
Advisor: Prof. Yang Wenchuan

Beijing University of Posts and Telecommunications Beijing, China
Bachelor of Engineering in Computer Science & Information Security *Sept 2013 – Jun 2017*
Advisor: Prof. Liu Liang

Publications

1. W. Yang, R. Hua, and Q. Zhao, "A sequence-to-sequence traffic predictor on software-defined networking," *International Journal of Web and Grid Services*, vol. 17, no. 3, pp. 268–291, Mar. 2021, ISSN: 1741-1106, 1741-1114.
2. W. Yang, R. Hua, and Q. Zhao, "Sequence Generative Adversarial Network for Chinese Social Media Text Summarization," in *2019 Chinese Automation Congress (CAC)*, ISSN: 2688-092X, Nov. 2019, pp. 4620–4625.
3. W. Yang, Q. Zhao, and R. Hua, "Design and Implementation of Application Classification Based on Deep Learning," in *2019 Chinese Automation Congress (CAC)*, ISSN: 2688-092X, Nov. 2019, pp. 4821–4826.
4. W. Yang, Q. Zhao, and R. Hua, "A Method for Massive Scientific Literature Clustering Based on Hadoop," in *2019 Chinese Automation Congress (CAC)*, ISSN: 2688-092X, Nov. 2019, pp. 5518–5523.
5. Q. Zhao, W. Yang, and R. Hua, "Design and Research of Composite Web Page Classification Network Based on Deep Learning," in *2019 IEEE 31st International Conference on Tools with Artificial Intelligence (ICTAI)*, ISSN: 1082-3409, Nov. 2019, pp. 1531–1535.
6. Q. Zhao and W. Yang, "Multi-label Classification of Technical Articles Based on Deep Neural Network," in *2019 Chinese Control Conference (CCC)*, ISSN: 1934-1768, Jul. 2019, pp. 8391–8397.

Research Experience

Undergaduation Thesis Beijing, China

Design and Implementation of Chaotic Compressive Sensing Algorithm *Mar 2017*
Advisor: Prof. Peng Haipeng
The thesis won the 2017 outstanding undergraduate thesis award. (2/89 in school)

Graduation Thesis Beijing, China

Discovery and Research of Frequent Item in Interdiscipline Based on Deep Learning *Mar 2020*
Advisor: Prof. Yang Wenchuan

Chinese Internet Text View Extraction Management Software Beijing, China
Project member *Aug 2017 – Nov 2017*

- Designing a software to help the government quickly know appeals from the public.

Subject Domain Extraction and Classification Model Beijing, China
Project member *Aug 2017 – Dec 2017*

- Aiming at the problem that the growing Chinese scientific and technological literature cannot be classified automatically.

Research and Design of New Knowledge Discovery System Beijing, China
Project manager *Dec 2017 – Aug 2018*

- The subject intends to find a new cross-disciplinary law by using text multi-label from the growing scientific literature.

Frontier Scientific Literature Scoring and Recommendation System Beijing, China
Project manager *Jun 2018 – Dec 2018*

- The project aims to solve the problem that literature viewers can't find the most suitable and high-quality article quickly.

Subject Domain Knowledge Composition and Prediction System Beijing, China
Project member *Sept 2019 – present*

- It improves the New Knowledge Discovery System and shows key documents in the development process by statistical method.

Internship

Ye Peida Institute, Beijing University of Posts and Telecommunications Beijing, China
Project member *Mar 2014 – Jun 2017*

China Information Security Evaluation Center Beijing, China
Data analyst *Jan 2017 – Oct 2017*

Beijing Yunhe Space Time Technology Co., Ltd Beijing, China
Algorithm intern *Oct 2018 – Apr 2019*

Beijing Institute of Science and Technology Information Beijing, China
Project member *Jan 2018 – Apr 2019*

Awards

- The Second Prize of the China Undergraduate Mathematical Contest in Modeling. *2015*
- Triple-A Student of BUPT. *2014 – 2018*
- Graduation Thesis Award for Outstanding Undergraduates. *2017*
- First and Second Class Scholarship in BUPT. *2014 – 2019*
- IFLYTEK big data, Competition Shortlisted Award(4/960). *2019*
- KAGGLE big data, Jigsaw Unintended Bias in Toxicity Classification top9(Bronze). *2019*
- Japanese Government (MEXT) Scholarship. *2021 – 2025*

Skills

Programming C, Java, Python, Javascript
Tools Git, Adobe Illustrator, Prezi, Matlab, Mathematics, LaTeX
Languages Chinese, English, Japanese