

Jie WANG

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Education

- **Xi'an Jiao Tong University, Xi'an, China** Sep. 2018 - Present
M.S. student in Software Engineering, Advisor: Prof. Li Zhu
- **Dalian University of Technology, Dalian, China** Sep. 2014 - June 2018
B.S. student in Software Engineering, Advisor: Prof. Yu Liu

Research Interests

- Natural Language Processing
- Question Answering
- Recommender Systems
- Information Retrieval

Research Experience

- Research Student Sep. 2018 - Present
School of Software Engineering, Xi'an Jiao Tong University, China

Project: Context-aware Citation Recommendation

- Proposed a context-aware citation recommendation model based on memory network named (DMCR). The model aimed to help researchers find appropriate scientific paper from huge volume information.
- Designed a representation learning method for citation context and papers by considering authors information and citation relationship.
- Devised an approach to calculate the relevance between citation context and papers by a multilayer memory network.
- Evaluated the improved performance of DMCR by conducting experiments compared with previous methods.

Project: Low-rank and Sparse Matrix Factorization for Recommender Systems

- Proposed a low-rank and sparse matrix factorization with prior relations(LSMF-PR) recommendation model to predict ratings of users on items, which can alleviate error propagation produced by intermediate outputs in traditional matrix factorization methods.
- Designed a general approach to obtain the prior information, including user relationship based on social network and item relationship based on content information, to solve the cold start and sparsity problem.
- Conducted experiments in different application scenarios to evaluate and compare performance of LSMF-PR with previous methods.

- Research Assistant Sep. 2016 - June 2018
IT Service Engineering Lab, Dalian University of Technology, China
 - Participated in building a news crawling and analyzing system.
 - Devised crawling strategies for different websites and processed the crawled data.
 - Designed news analyzing module to calculate the popularity of news.

Publications

- **Jie Wang**, Li Zhu, Tao Dai, Yabin Wang. "Deep Memory Network with Bi-LSTM for Personalized Context-aware Citation Recommendation." *Neurocomputing* (2020).
- **Jie Wang**, Li Zhu, Tao Dai, Qiannan Xu, Tianyu Gao. "Low-rank and Sparse Matrix Factorization with Prior Relations for Recommender systems" *Applied Intelligence* (under review).

Technical Skills

- Programming experience in Python, Java, C, R, Matlab.
- Comfortable with various paradigms and frameworks, including tensorflow.

Honours & Awards

2019	Excellent Postgraduate, Xi'an Jiao Tong University
2019	Special Postgraduate Scholarship, Xi'an Jiao Tong University
2019	First Prize of the "6th China Graduate Contest on Smart-city Technology and Creative Design"
2018	Special Postgraduate Scholarship, Xi'an Jiao Tong University

2016	National Encouragement Scholarship, Dalian University of Technology
2016	First Prize of scholarship, Dalian University of Technology
2015	Second Prize of scholarship, Dalian University of Technology