Siqi Shao

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Areas of Interests

Natural Language Processing, Machine Learning

Education

- **School of Electronics, Information and Electrical Engineering(SEIEE), Shanghai Jiao Tong University** *09/2017 to present*
  Major in Computer Science and Engineering.
  GPA: 3.89/4.3
  Score: 90.0/100
  Rank: 17/152

- **Zhiyuan College, Shanghai Jiao Tong University** *03/2018 to present*
  Zhiyuan Honors Program of Engineering (Top 5%)

Research Experience

- **Social Network Popularity Prediction based on Deep Learning** *10/2019 to present*
  ***Independent Research**, supervised by Professor **Xiaofeng Gao** (CS Department, SJTU)*
  Description: This study tries to design a social network popularity prediction model based on autoencoder.
  - Try to extract the hyper features of the input to make the prediction.
  - Focus on the data sparsity problem.

- **Classification and Evaluation of Social Popularity Prediction** *08/2018 to 08/2019*
  ***Independent Research**, supervised by Professor **Xiaofeng Gao** (CS Department, SJTU)*
  Description: This research makes a classification and establishes a unified evaluation framework of popularity prediction methods for microblogs.
  - Search and classify the current popularity prediction models into 4 categories.
  - Complete 14 prediction methods, including 6 feature based methods using traditional machine learning methods, 2 time series methods, 3 collaborative filtering methods and 3 deep learning methods.
  - Build an evaluation framework which includes the accuracy, efficiency, timeliness, robustness and bias to assess these prediction methods.

- **Real-Time Topic Detection on Long-Text Contents** *10/2018 to 07/2019*
  ***Research Assistant**, supervised by Professor **Xiaofeng Gao** (CS Department, SJTU)*
  Description: This study focuses on topic detection of long texts in social networks, especially providing a strategy for detection and modification in response to the semantic vibration.
  - Design an improved GloVe model to complete the word-embedding task, which can carry out adjustments on relevant word vectors when there are semantic vibrations.
  - Propose an online topic clustering algorithm based on keyword frequency.

Honors & Awards

- HuaWei Scholarship 2019
- Zhiyuan College Honors Scholarship 2019&2018
- Outstanding Winner of Mathematical Contest In Modeling (17/14108) 2019
- Ben Fusaro Award of Mathematical Contest In Modeling (1/14108) 2019

Skills

- **Programming:** C/C++, Python, Java
- **Software:** LATEX, MATLAB, CPLEX