

ZOU XIAOHAN

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RESEARCHES

Speech Emotion Recognition

Guide: Dr. Du Qingfeng

Mar 2019 – Jun 2019 Tongji University, Shanghai

- Processed and selected features extracted by Opensmile.
- Constructed models based on LSTM, CNN, SVM and MLP.
- The performance of our models shows better and competitive results on CASIA (Chinese), EMODB (German), SAVEE (English) and RAVDESS (English) data set when competing with state-of-the-art methods. The recognition accuracy is above 80%.

Question Answering System

Guide: Dr. Zhang Fan at IBM & MIT.

Nov 2018 – Jan 2019 Shanghai, China

- Created a question answering system aims to provide information about stocks and weather based on Rasa NLU.
- Used spaCy and sklearn for intention identification and entity extraction, SVM was choosed as the classifier.
- Our system could deal with incremental query for multiple times in a single-round and query for multiple times in multiple rounds (NFA), handle pending state transitions and pending actions, and recognize negative entity.

Anomaly Detection

Guide: Dr. Du Qingfeng

Sep 2018 – Jan 2019 Tongji University, Shanghai

Built a anomaly detection system for microservices architecture. (Waiting to be completed)

Neural Machine Translation

Guide: Dr. Lin Tong.

Jul 2018 – Aug 2018 Peking University, Beijing

- Adopted a new Sharing-the-hidden-space-based Dual Learning framework, which can utilize the structure duality to improve its performance on dual form tasks and better regularize the model.
- Added two extra reconstructors consisting of encoders and decoders of two translators to traditional Sequence to Sequence Neural Machine Translation model with attention mechanism to extract more information from unlabeled data.
- Our model showed better performance when compared to strong baselines on small data set (English and Vietnamese, from IWSLT 2015).

EXPERIENCE

Microsoft Student Club (MSC)

Chief Experience Officer & Vice Chief Technology Officer

Sep 2018 - Jun 2019 Tongji University

- Responsible for the management of related affairs of club.
- Organized and gave lectures about data structure, algorithm and machine learning in technology courses.

EDUCATION

B.Eng | Software Engineering

Tongji University

Expected 2020 Shanghai, China

Relevant Coursework:

- **Statistics & Mathematics:** Probability and Mathematical Statistics, Discrete Mathematics, Calculus, Linear Algebra, et al.
- **Computation:** Data Structure, Algorithm, SOA and Web Services, Distributed System, Software Engineering, Software Test, et al.

AWARDS

- 17' China Collegiate Programming Contest (CCPC) - WFinal **Qualification**
- 17' Programming Contest of East China Normal University **Second Prize**
- 17', 18' China Mathematical Contest in Modeling (CUMCM) **Shanghai Second Prize**
- 17', 18' Programming Contest of Tongji University **Second Prize**
- 18' ACM International Collegiate Programming Contest (ICPC) - Asia Regional **Qualification**
- 18' China Collegiate Programming Contest (CCPC) - WFinal **Bronze Medal**
- 18', 19' The Mathematical Contest in Modeling (MCM) **Successful Participant**
- 19' Student Innovation Training Program of Tongji University **Certified as Eligible**

PUBLICATIONS

- Xiaohan Zou. "A Survey on Application of Knowledge Graph". Under Review.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, MATLAB, Java, JavaScript
- **Frameworks:** TensorFlow, Keras, scikit-learn
- **Web / Mobile:** Vue, Django, Android Development

ACTIVITIES

- Softball Team - **Member**
- Association of Baseball and Softball - **Vice President (Branch in Jiading Campus)**