Tianyin Wang

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Education

South China University of Technology (SCUT) *Aug. 2019 - Jun. 2023*
Major in Computer Science, School of Computer Science & Engineering
GPA 3.96/4.0, Ranking 2/170

Research Interests

My research interests include information extraction (low resource) and text generation.

Research Experience

Unsupervised Relation Extraction *SCUT* *Aug. 2021 - May. 2022*
- Thesis: using the silver data, which is created by off-the-shelf zero-shot relation extraction(RE) models, to improve the zero-shot RE performance.
- Working with Ziqian Zeng

Text Augmentation Via Vision Augmentation *University of Washington* *Jun. 2022 - Present*
- Thesis: a novel method of text augmentation: mapping specific vision augmentations to semantics meaning on the generated text, after enabling the model to capture the vision meaning of the text.
- Independent research, advised by Sheng Wang

Publication

Learning with Silver Standard Data for Zero-shot Relation Extraction. EMNLP 2022 (under review)
***Tianyin Wang**, Jianwei Wang and Ziqian Zeng.*

Selected Projects (Available in github)

LaTeX Equation Recognition *Nov. 2021- Dec. 2021*
- It aims to train a model which can map an image of a LaTeX math equation to LaTeX code using ResNet as image encoder and Transformer layers as text decoder.

Online Store *Aug. 2021- Sep. 2021*
- It is a web application based on springboot, mybatis and vue. It is an online shopping mall created for customers and merchants. It contains all of the essential features of the common online store. The concise user interface also enables efficient shopping and store management.

Multimedia Player *Apr. 2022 - Jun. 2022*
- It is a robust and feature-packed media player based on FFmpeg, OpenGL, which can play a wide range of audio, and video files. Compared with traditional video-player, it has some advanced functions including video playback, video preview and sound wave visualization.

Skills

Programming Language: Python, C++, Java
Language: English, Chinese (native), Cantonese (native)

Selected Awards

Awards
Finalist (2.5%) in the 2021 Mathematical Contest in Modeling *Apr. 2021*
Second Price in Contemporary Undergraduate Mathematical Contest in Modeling *Nov. 2021*
Scholarship
The First Class of Science And Innovation Scholarship *Jul. 2022*
The Second Class Scholarship *Oct. 2020*