Wang Mu-Chun

Email:amoswang2000@mail.ustc.edu.cn
GitHub: github.com/amos814

Education

University of Science and Technology of China — Hefei, China
Bachelor in Data Science — 2018–Current

- GPA: 3.66/4.30
- Highlight Courses: Linear Algebra (92), Probability and Mathematics(95), Introduction to AI (91), Stochastic process (93)

Experience

NUS Summer Workshop — Singapore
NUS School of Computing — Summer 2019

- Under the mentor of Prof. Tan Wee Kek
- Designing an application on IoT system from hardware to software
- Obtained the best project award in the workshop

Research in BASE Lab — Hefei, China
USTC BASE Lab — Feb. 2020 –Jul. 2020

- Projects: Cognitive Diagnosis with Graph Neural Network
- Co-Worker: Gao Weibo
- Supervisor: Liu Qi

Summer Research with professor Bang Liu — Remote Research
Jul. 2020 –Sep. 2020

- Projects: Multi-hop Question Generation
- Co-Worker: Cheng Yi
- Supervisor: Bang Liu

Research in LDS Lab — Hefei, China
USTC LDS Lab — Sep.2020 –Current

- Projects: Reformulator for Conversational Recommendation System Simulator
- Supervisor: Xiang-nan He, Shuo Zhang, Krisztian Balog

Projects

Cognitive Diagnosis with Graph Neural Network — 2020
Advisor: Prof. Qi Liu

- Summary: By extracting the information from exercise or student knowledge statement through Graph attention network to get a better performance on cognitive diagnosis.
- My contribution: Method idea and part of coding for the main model

Multi-hop Question Generation through relation constructed — 2020
Advisor: Prof. Bang Liu

- Summary: After extracting the relation, trying to generate sub question and compose them to get multi-hop question

– My contribution: Method idea and part of coding for evaluation

Image Segmentation Enhanced Style Transfer 2020

Advisor: Prof. Yang Cao

– Summary: We have incorporated Image Segmentation into the process of Style Transfer, which has efficiently solved the problem that different elements (e.g. background and animal) interfering with each other when transfering horses to zebras. The code and results can be found in ISST

– My contribution: L0 smooth implementation and embedded it into our framework

Reformulations of Conversational Recommendation System's Simulators 2020

Advisor: Prof. Shuo Zhang

– Summary: Investigating the user's reformulation behaviors during the conversation interactions through user studies. Further we create a user utterances reformulator to diversify the simulator's generated utterances.

– My contribution: Code implementation and the reformulation model methods.

Skills

Programming

- C
- C++
- Python
- Matlab, Methematica

Languages

- Mandarin(Native)
- English(Toefl:96)

Awards

- China Computer Federation Big Data and Computing Intelligence Contest: sixth prize 2019
- Chinese Mathematics Competition: third prize 2019

Publications

- Cognitive Diagnosis with Graph Neural Network is going to be submitted to SIGIR 2021
- The Reformulations of Conversational Recommendation System's Simulator is going to be submitted to SIGIR 2021