Mu Chun Wang

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EDUCATION

University of Science and Technology of China *Aug. 2018 ∼ present*
School of Data Science
Overall GPA: 3.66/4.3 (87.32/100)
Course Highlights: Probability and Mathematical Statistics A (95), Fundamental of Artificial Intelligence (91), Fundamental of Data Science (93), Computer Vision (95), Linear algebra (92), Stochastic Process (93), Information Theory (Ongoing).

RESEARCH INTERESTS

Information Retrieval; Natural Language Processing; Machine Learning; Computer Vision; Statistics; Reinforcement Learning.

PUBLICATIONS

Analyzing and Simulating User Utterance Reformulation in Evaluating Conversational Recommender Systems.
Shuo Zhang*, **Mu Chun Wang***, Kristian Balog
Submitted to SIGIR 2021.

RCD: Relation Map Driven Cognitive Diagnosis for Intelligent Education Systems.
Weibo Gao, Qi Liu, Zhenya Huang, Yu Yin, Haoyang Bi, **Mu Chun Wang**, Jianhui Ma, Shijin Wang and Yu Su
Submitted to SIGIR 2021.

RESEARCH AND INTERN EXPERIENCE

Topic: Cognitive Diagnosis with Graph Neural Network *Jun. 2020 ∼ Sep. 2020*
Advisor: Prof. Qi Liu; BASE Lab

- Presented a novel Relation map driven Cognitive Diagnosis (RCD) framework, uniformly modeling the interactive and structural relations via a multi-layer student-exercise-concept relation map.
- Extensive experimental results on real-world datasets show the effectiveness of our RCD in both diagnosis accuracy improvement and relation-aware representation learning.

Topic: Simulating User Utterance Reformulation in Recommender Systems *Oct. 2020 ∼ Feb. 2021*
Advisor: Prof. Xiangnan He, Prof. Kristian Balog, Dr. Shuo Zhang; LDS USTC and IAI Group

- Analyzed the user utterance reformulation behaviors when facing conversational agent's failure.
- Proposed a t5-based utterance reformulation model, which can reformulate user utterances in certain type of reformulations. Experimental results on turing test and automatically metrics show that our method outperform baselines.

PROJECT WORK

Topic: LC3 Simulator and Assembler *Dec. 2019*
Instructor: Hong An; Course: Introduction to Computer Systems(H)

- Implemented a simulator and an assembler for LC3 in C language.
- Implemented extra functions like recording the running time and I-O interrupt.

Topic: Image Segmentation Enhanced Style Transfer code *Oct. 2020 ∼ Dec.2020*
Instructor: Yang Cao; Course: Computer Vision

- Contribution: Using the L0 smooth technique to enhance the segmentation performance.
- Proposed a novel framework incorporating Image Segmentation into Style Transfer.
- Evaluated our framework based on CycleGAN and FaskFCN and achieved fantastic results.

AWARDS AND HONORS

- Provincial **Third prize** (Top at most 10%) in College Mathematics Competition, Anhui Province, 2019.

- Sixth prize (**Top 0.006 in China**) in China Computer Federation Big Data and Computing Intelligence Contest, 2020.

TECHNICAL STRENGTHS

English Fluency: TOEFL iBT 96 (Reading: 25, Listening: 26, **Speaking: 24**, Writing: 21.)
Computer Skills: Assembly Language, C, C++, MATLAB, R, Mathematica, JavaScript, Python.