Zeyuan Chen

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Education

Aug. 2018 – Present **University of Science and Technology of China (USTC)**, Hefei, China.
Major: Data Science and Big Data Technology
Special Class for the Gifted Young
GPA: 89.26/100
Course Highlights: Computer Vision (100), Introduction to Computer Systems(H) (93)

Research Interests

Low-level Vision Tasks
Unsupervised/Semi-supervised Learning

Research Experiences

May. 2020 – Nov. 2020 **VIDAR lab**, University of Science and Technology of China
Topic: Image Dehazing. Advisor: Prof. Zhangyang Wang and Prof. Dong Liu.
• Proposed a synthetic-to-real generalization framework for dehazing, which establishes the new state-of-the-art real-world dehazing performance.
• Explored physical/statistical rules for the dehazing task and leveraged traditional dehazing priors to boost the learning-based framework.

Jun. 2020 – Aug. 2020 **Data Science Lab at McMaster(Remote)**, Mcmaster University
Topic: Entity Evolution Analysis. Advisor: Prof. Fei Chiang.
• Data cleaning and filtering: Extracted and formulated raw data from several large-scale databases.
• Data modeling: Used graphs to model information about entities, their properties, and relationships between entities.
• Evolution Analysis: Exploring the underlying cause of changes in the data to discover discover changes patterns and explain data and schema evolution.

Projects and Activities

Dec. 2019 **LC3 simulator and assembler**.
Wrote a simulator and an assembler for LC3 in both python and C, with some extra features like running time recording compared to the official LC3 simulator.

Aug. 2019 **Big data training camp for Top universities in China**.
Solved a problem of predicting credits of users using their history financial information.

Awards and Honors

Oct. 2020 **Silver Prize for Outstanding Student Scholarship**, University of Science and Technology of China.
Oct. 2019 **Bronze Prize for Outstanding Student Scholarship**, University of Science and Technology of China.

Publications

Nov. 2020 **PSD: Principled Synthetic-to-Real Dehazing Guided by Physical Priors (CVPR21 Oral)**, ***Zeyuan Chen***, *Yangchao Wang, Yang Yang and Dong Liu.*.

Mar. 2021 **One paper has been submitted to ICCV 2021 and under review.**.

Skills

Programming Languages: Python, C/C++
Tools and Frameworks: LaTeX, PyTorch, TensorFlow, Keras, Pandas
English: TOEFL: 103 (Reading: 28, Listening: 26, Speaking: 22, Writing: 27)