Zeyuan Chen

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Education

University of Science and Technology of China, Hefei, China 09/2018 – 06/2022

Major: Data Science and Big Data Technology, GPA: 3.82 / 4.3

- Course Highlight: Computer Vision (100); Introduction to Computer Systems (H) (93)
- Selected Awards: Silver Prize for Outstanding Student Scholarship (2020, 15%)

Publications

- **Zeyuan Chen**, Yangchao Wang, Yang Yang and Dong Liu, "PSD: Principled Synthetic-to-Real Dehazing Guided by Physical Priors," in **CVPR'21 (oral)**,
- **Zeyuan Chen**, Yifan Jiang, Zhangyang Wang and Dong Liu, "CERL: Coordinated Enhancement for Real-World Low-Light Noisy Images," Submitted to ICCV'21 and under review,

Experience

VITA, UT Austin 12/2020 – 03/2021

Topic: Real-world low-light Enhancement Advisor: Prof. Atlas Wang and Prof. Dong Liu

- Proposed an optimization framework to disentangle the low-light enhancement task into separated sub-problems and solve them by plug-and-play iterations.
- Presented a self-supervised denoising model that is easily adapted for real noise removal without referring to any ground-truth clean image; as well as a improved state-of-the-art enhancement backbone.

VITA, UT Austin 06/2020 – 11/2020

Topic: Self-supervised Image Dehazing. Advisor: Prof. Atlas 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.

Data Science Lab at McMaster, McMaster University 06/2020 – 08/2020

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

Big data training camp for Top universities in China 08/2019

- Solved a problem of predicting credits of users using their history financial information.

LC3 simulator and assembler 12/2019

- 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.

Skills

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