Yijin Guo

AN UNDERGRADUATE

ACM Class, Shanghai Jiao Tong University

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A junior student in the ACM Class in Shanghai Jiao Tong University(SJTU). With some research experiences in Computer Vision. Open to other fields. Good at learning independently and efficiently. Able to rapidly learn about a new specific topic. Willing to take a deep dive into a problem and do some creative work.

Education

Undergraduate, Shanghai Jiao Tong University (SJTU)　　　　　　　　　September 2021 - Present

Computer Science(Honored), Zhiyuan College, ACM Class

Experience

Research Assistant in BCMI laboratory　　　　　　　　　　　　　　September 2023 - Present

Advisor: Hongtao Lu

- Do some research in Computer Vision

- Currently focus on multi-task learning and concentrate on the application of multi-task learning to the few-shot problem.

Teaching Assistant in SJTU

Compiler Design (2023-2024-1)-CS2966-01　　　　　　　　　　　　　July 2023 - October 2023

Guide and assist students in designing compilers, responsible for some tutorial classes and code review.

Projects

Multi-task learning in few-shot problems　　　　　　　　　　　　　October 2023 - Present

We want to tackle the problem of universal few-shot learning of arbitrary dense prediction tasks. Currently, there are few researchers working on this matter, and the existing work has many flaws. We are redesigning the network architecture to better meet our requirements.

Use dataset distillation to deal with Long-tailed problem　　　　　October 2023 - December 2023

Dataset distillation is a method that reduces the size of datasets while maintaining the training efficiency. We try to condense and rebalance the long-tailed datasets by dataset distillation to alleviate the long-tailed problem. This work has been submitted for publication. The paper and codes can be found in `https://github.com/CV-H-G-R-group/CRLT_DD` .

Skills

Languages

Chinese, English

Programming

Skillful: C++, C, Python(pytorch), Git, LaTeX

Competent: Java, Verilog, HTML