Hao Zhou

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EDUCATION

South China University of Technology(SCUT), GuangZhou, China Sep 2022

Automation School of Automation Science and Engineering

GPA:3.7/4.0

Major Course: Signal Analysis and Processing, Analog Electronics Technique, Automatic Control Theory

RESEARCH EXPERIENCE

Summer School of National University of Singapore(NUS) Jul 2023

The lecture mainly focusing on traditional ML algorithms, such as Random Forest, Decision Tree, and two vision patterns, Local Binary Pattern(LBP) and HOG. Moreover, I accomplished final task of classifying seven kinds of traffical signs in time, and got a **Distinction** grade eventually.

Biometrics and Intelligence Perception Lab of SCUT Sep 2023 - Present

Worked as an intern in the Gait Recognition research Group. In the first three months, I mainly learned the fundamental of deep learning and **Pytorch**. After that, I began to read and **reproduce** top papers in the fields of **gait recognition** and **knowledge distillation(KD)**. At present, the main work is to use knowledge distillation and other means to lightweight gait recognition related deep nerual networks, such as DeepGaitV2, to improve the accuracy on outdoor dataset(GREW)

PROJECT EXPERIENCE

Intramural Robot Competition Mar 2023 - May 2023

I was mainly responsible for the development of visual algorithm (C++) using **Opencv** library on **Linux system**, as well as constructing a car with block grabbing ability to adapt to multi-terrain with other team members, and finally won the **open source award** of the same track

2023 China Undergraduate Engineering Practice and Innovation Ability Competition Jun 2023 - Oct 2023

The task is to successfully classify four kinds of garbage with **real-time inference**. And I was mainly responsible for dataset collection, training of **YOLOv5** model , **model deployment** on edge computing devices (Nvidia Jetson series), using of **TensorRT**, production of Qt graphical interface, and the communication with MCU Stm32. Moreover, the classification accuracy achieved nearly 70%.

SKILLS

Language: English(CET-6)

Program Language: Python C++

ML Frame: Pytorch

Operation System: Linux