Yijun Yang

School of Computer Science, Shandong University, Qingdao, P.R.China
Homepage: https://yijun-yang.github.io/
Phone: (+86)15962162480
Email: yangyijun@mail.sdu.edu.cn

EDUCATION

Shandong University   **GPA: 89.0/100**

Bachelor Candidate in School of Computer Science, Major in Artificial Intelligence   *Sep. 2018 – Jun. 2022(Expected)*

EXPERIENCE

Undergraduate Research Assistant   Dec. 2020 – Present

iLearn Lab, Shandong University   advised by Associate Prof. Tian Gan, co-advised by Prof. Liqiang Nie

- Research area: Multimedia, Computer Vision, especially Video Understand, Vision & Language
- I am researching on Tencent Wechat RhinoBird Project about Video Multi-modal Self-supervised Representation Learning

PROJECTS

ASL Detection | *Python, Pytorch, Detectron2, Flask, HTML+JS+CSS*   Sep. 2020 – Jan. 2021

- Title: Develop a real-time Detector which focuses on American Sign Language
- Role: Team leader
- Algorithm: Implement YOLOv5, Cascade RCNN, SSD, Mask RCNN, Faster RCNN
- ASL Dataset: we make this dataset ourselves from collecting to labelling, which includes 3830 labeled images
- Others: Apply PASCAL VOC2012 to the above five algorithm, and develop a webpage using with Flask and HTML+JS+CSS
- Result: mAP@0.5:0.95 is 68%, about 55 frames per second
- Evaluation: A+ in Application of Artificial Intelligence Programme advised by Prof. Lin Lu

Real-time Plane Tracking | *C++, OpenCV*   Nov. 2020 – Dec. 2020

- Title: Feature tracking after selecting plane template
- Algorithm: SIFT, SURF, ORB, RANSAC, OpticalFlow
- Result: stable and fast (about 400 frames per second when released) using OpticalFlow

Socket Instant Messaging | *Python*   Apr. 2020 – May 2020

- Title: Use Socket to realize the communication between two computers and understand TCP
- Functions: Message to each other, Transfer files, audio and video call, beautiful UI

COMPETITIONS

Contemporary Undergraduate Mathematical Contest in Modeling | *Python*   Sep. 2020

- Title: Problem B:Crossing Desert, which is about Opsearch and Graph Theory
- Role: Main members
- Evaluation: First Prize in Shandong Province

CCF BDCI 2020 | *Python, Pytorch*   Sep. 2020 – Dec. 2020

- Title: QA Matching in Real Estate
- Role: Team leader
- Work Included: BERT and other variants, Data Augmentation, Model Ensemble
- Evaluation: 112 out of over 2000 teams

TECHNICAL SKILLS

Languages: Python, C/C++, Matlab
Frameworks: Pytorch
Developer Tools: Git, Google Cloud Platform, Visual Studio, PyCharm, IntelliJ, VS Code
Others: LaTeX