

Yangsen Chen

Email: yangsen2@illinois.edu | Add: 1010 W, Univ Ave, Urbana, IL

Education

University of Illinois Urbana-Champaign, Urbana, IL

Aug. 2022 - Current

Master of Computer Science | GPA: 4.0/4.0

Tongji University, Shanghai, China

Sep. 2018 - Jun. 2022

B.Eng. in Software Engineering | GPA 90.6/100

Papers

- **Y. Chen**, R. Du, K. Luo and Y. Xiao, "Fall detection system based on real-time pose estimation and SVM," 2021 IEEE 2nd International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering, Citation: 16
- Q. Zhu, J. Zeng, **Y. Chen** and W. Sun, "Toward Robust Image Guided Depth Completion via Uncertainty-Aware Diffusion Network" Rejected by AAAI 2023

Research Experience

Fall Detection Based on Human Pose Estimation

Feb. 2021 – Jun. 2021

- Researched on the method of the light-weight method on OpenPose to train a neural network suitable for mobile devices.
- Modify the architecture of the neural network and carried out classification based on support vector machine.

Research on Palm Verification for Mobile Devices

- Palm and finger gap ROI extraction based on Tiny-YOLOv3.
- Used Mobile FaceNet as the backbone to extract palmprint features for ROI matching.
- Implemented a smartphone-based system for palm verification.

Internship Experience

SenseTime Group Ltd., Shanghai

Jan. 2022 - Aug. 2022

Algorithm Engineer Intern | mentor: [Jin Zeng](#), [Qingpeng Zhu](#)

- Mainly worked on developing depth estimation and completion tasks.
- Researched on building robust depth completion method, wrote code in PyTorch, carried out experiments on several datasets, wrote the paper, and submitted it to AAAI 2023.

Skills

Python, C++, Pytorch, Tensorflow, Linux