CURRICULUM VITAE

Name: Jiawei Shen
Tel: +1 (314)534-8214
Email: jiaweishen@wustl.edu
Homepage: https://github.com/Jiawei-Shen/Homepage

Educational Background

Wuhan University **Sept 2017- Jun 2021**

- Project 985 and 211 University in China, #China National University Ranking 8
- Bachelor of Electronic Information Engineering, GPA 3.64/4.0

University of California, Berkeley **July 2019- Aug 2019**

- Summer School Certificate Courses
- Final Grade：A
- Key modules: 9F. Business Speaking/CS61A The Structure and Interpretation of Computer

Work Experience

China EV100 Research Institute (Wuhan) Co., Ltd **Jul 2020- Dec 2020**

- Intern in Technical Research and Development Department

- Supervisor: Dr. Qiqi Dong

- Key duties: Responsible for deep learning algorithm

- Main achievements: Extract and adapt the point cloud data of ouster128 line radar under Linux system, and use randla net based on CNN for object detection. Assisted in the production of about 2000 640 * 360 pixel images of the bus head label dataset.

China Mobile (Wuhan) Co., Ltd **Mar 2020- Jul 2020**

- NLP Algorithm Engineer Intern

- Supervisor: Mr. Gennin Zhou

- Key duties: Propose and build models for speech detection and speech-to-text pipeline. Train networks that take recognized text as input to provide customers with intelligent response. Improve detection accuracy and efficiency during daily experiments.

Researches Experience

- Research on Implicit Euler ODE Networks for Single-Image Dehazing based on implicit structure

Supervisor: Prof Lei Yu **Oct 2019- Mar 2020**

Considering the Euler method, the ResNet can be considered as explicit scheme, which associates with implicit scheme, then we introduce a network based on implicit scheme. In order to realize such network, we adopt recursion to solve the problem that implicit algebraic equation cannot be solved analytically.

- Research on the estimation of optical flow for event camera

Supervisor: Prof Lei Yu **Jan 2020-Mar 2020**

Introducing a novel representation of events as the input of network to exploit spatio-temporal information from asynchronous event stream for learning of optical flow. Proposing a lightweight coarse-to-fine flow pyramid network for event-based optical flow.

- Research on Technical research of Super-resolution image reconstruction based on lightweight network

Supervisor: Prof Lian Zou **Nov 2017- Jan 2021**

Using Network Pruning, Weight Sharing, and Quantitative interception to reduce the weight of the network.

Publications

- DU, J., WEI, W., FAN, C., ZOU, L., SHEN, J., ZHOU, Z. and CHEN, Z., 2020. Lightweight Image Super-Resolution With Mobile Share-Source Network. IEEE Access,.

- Shen, J. and Li, Z., 2020. A Lightweight Network to Learn Optical Flow from Event Data. ICPR,.

- Shen, J., Li, Z., Yu, L., Xia, G. and Yang, W., 2020. Implicit Euler ODE Networks for Single-Image Dehazing. CVPR,.

Awards

- 2019 Mathematical Contest In Modeling, Meritorious Winner

- 2018 & 2019 (continuous 2 years) First Class Scholarship (top 5% in comprehensive estimation of undergraduate)