You Feng (Arthur) Wu

A techie initiator, a problem hacker, and a great team player.

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GITHUB   LINKEDIN   BLOG

EXPERIENCES

Machine Learning engineer, *KaiKuTeK Inc.*   Feb 2020 – Current

- Fast gesture recognition
    - Robust **event localization** in the presence of temporally misaligned labels in the training data.
- Long-Tailed Object Recognition
    - Alleviate the category quantity distribution **imbalance problem** for each category.
    - Learn the **intra-class angular distribution** and transfer from head to tail categories.
- Temporal coherency
    - Explicitly enforce coherency by encouraging **similarity of temporally adjacent frames** without labels.
- Train-test consistency
    - Compare scores of action classes and **predicted threshold** in both training and testing time.
- Customers support, lead team members, diagnose and troubleshoot customer technical problem.
- Evaluate gesture feasibility, definitions, etc.
- Deploy Python API to **AWS** cloud for providing customers with an automated training process.
- Survey the state-of-the-art paper and improve algorithm

EDUCATION

National Chung Cheng University   Sep 2017 - Jun 2019
M.S. in Department of Electrical Engineering

National Kaohsiung University of Applied Sciences   Sep 2013 - Jul 2017
B.S. in Department of Electrical Engineering

PUBLICATIONS

- You-Feng Wu, Vu-Hoang Tran, Ting-Wei Chang, Wei-Chen Chiu, Ching-Chun Huang, "**DEN: Disentangling and Exchanging Network for Depth Completion**", International Conference on Pattern Recognition(ICPR), Sep., 2020.[Paper][Code]
- You-Feng Wu, Hoang Tran Vu, Ching-Chun Huang, "**SEMI-SUPERVISED AND MULTI-TASK LEARNING FOR ON-STREET PARKING SPACE STATUS INFERENCE**", Multimedia Analysis and Pattern Recognition (MAPR), May ., 2019.[Paper][Code]
- You-Feng Wu, Hoang Tran Vu, Ching-Chun Huang, "**SENSOR BASED ON-STREET PARKING SPACE STATUS INFERENCE UPON A SEMI-SUPERVISED AND MULTI-TASK LEARNING NETWORK**", Computer Vision, Graphic and Image Processing (CVGIP), Aug., 2018

PROJECTS

- MOST-107-2622-E194-007-CC3   Feb 2019 - May 2019
A Multi-task Network for Scene Segmentation and Depth Map Refinement used in a RGBD Robot.
- MOST-106-2622-E194-006-CC3   Nov 2017 - Apr 2019
Automatic Management of Roadside Parking Spaces based on Deep Learning, Geomagnetic Sensor Networks, and LoRa Communication.
- MOST-104-2622-E194-011-CC3   Fed 2017 - Nov 2017
An Study of Active SLAM for a Cleaning Robot using an Omnidirectional Camera.

SKILLSETS

- Operating Systems: **Linux**, Windows
- Computer Languages: **Python**, **MATLAB**, C
- Machine Learning and Data Science: **Pytorch**, **Tensorflow**, Keras
- Version control: GitLab, GitHub, Git, Evernote

HONORS

- Master thesis, **Honorable Mention** in MS Thesis Award of IPPR 2020
- Semi-supervised and Multi-task Learning for On-street Parking Space Status Inference, **Best Paper Award** in MAPR 2019