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EDUCATION & WORK EXPERIENCE

MEDIATEK INC.

2020 - Now

Software & Computer Vision Engineer

- Mobile Camera and Surveillance Algorithm Development.
(includes denoising, HDR, detection, segmentation, and other related tasks.)
- Integrating software C-Model between mobile chip modules and algorithms.

NATIONAL TSING-HUA UNIVERSITY (NTHU)

2018 - 2020

M.S. - Computer Science

- Participate in "Vision and Learning Lab" with my advisor Hwann-Tzong Chen.

NATIONAL TSING-HUA UNIVERSITY (NTHU)

2014 - 2018

B.S. - Computer Science

- Independent study: "360° Videos Object Detection". (3rd place in the competition)

PUBLICATIONS

LEARNING CAMERA-AWARE NOISE MODELS

European Conference on Computer Vision (ECCV) 2020

- Propose a GAN-based noise model learned from real-world noise and outperform other statistical noise models.
- Can generate unlimited synthetic noisy images from clean images with different cameras by our noise model.
- Improve the denoising performance by the combination of real and synthetic pairs.

OTHER EXPERIENCES

MEDIATEK INC.

2019.07 - 2020.06

[Internship] Study and develop learning-based methods of RAW denoising tasks.

UMBO COMPUTER VISION

2018.11 - 2019.08

[Industry-Academy Cooperation] Multi-person 3D pose estimation by learning-based methods.

CONFERENCE ON COMPUTER VISION, GRAPHICS, AND IMAGE PROCESSING (CVGIP 2018)

2018.08

2nd place in "Indoor 3D deep space construction competition based on deep learning and 2D images".

AUTOMOTIVE RESEARCH TESTING CENTER (ARTC)

2018.03 - 2018.11

[Industry-Academy Cooperation] Vehicle self-location technology by SLAM (error in 1m).

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (ITRI)

2017.09 - 2018.08

[Industry-Academy Cooperation] Use learning-based method to improve the sky noise of SLAM.

PEGATRON CORPORATION

2015.07 - 2015.09

[Internship] Develop Android APP of access control system with face recognition.

SKILLS

PROGRAMMING LANGUAGES *Experienced:* Python *Familiar:* C | C++ | Java

PACKAGES Matplotlib | Numpy | Pandas | PyTorch | Tensorflow

LANGUAGES *Native:* Chinese *Familiar:* English *Beginner:* German