HAO-WEI CHEN

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Education

National Tsing-Hua University (NTHU)   *Taiwan, Hsinchu*
B.S. in Computer Science   *Sep. 2015 - Jun. 2019*

National Tsing-Hua University (NTHU)   *Taiwan, Hsinchu*
M.S. in Computer Science   *Sep. 2019 - Aug. 2022*
Advisor: Chun-Yi Lee [link]
Thesis: Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation

Research Interests

- Computer Vision for Robotics
- Low-Level Vision

Publications

H.-W. Chen, Y.-S. Xu, M.-F. Hong, Y.-M. Tsai, H.-K. Kuo, and C.-Y. Lee "Cascaded Local Implicit Transformer for Arbitrary-Scale Super-Resolution", Accepted by IEEE/CVF Computer Vision and Pattern Recognition (CVPR), Jun. 2023.

H.-W. Chen, T.-H. Liao, H.-K. Yang, and C.-Y. Lee, "Pixel-Wise Prediction based Visual Odometry via Uncertainty Estimation", In Proc. IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), Jan. 2023. [paper][code]

M.-F. Hong, S.-S. Lin, **_H.-W. Chen_**, and C.-Y. Lee, "Toward a Reasonable Candidate Operation Selection for Differentiable Architecture Search", In Proc. IEEE Conf. Computer Vision and Pattern Recognition (CVPR) NAS workshop, Jun. 2020. [paper]

Work Experience

ELSA Laboratory, National Tsing-Hua University [page][medium]   *Taiwan, Hsinchu*
Research Assistant   *May. 2021 - Jun. 2022*
- Responsible for writing medium articles of the publications from the laboratory.
- Promote the laboratory to more people on Facebook, Reddit, and Twitter.

MediaTek. Inc.   *Taiwan, Hsinchu*
Research Intern   *Jul. 2022 - Present*
- Study the super-resolution task and write corresponding research papers.

Teaching Experience

National Tsing-Hua University   *Taiwan, Hsinchu*
Teaching Assistant
- Deep Reinforcement Learning (NTHU CS 565700)   *2021 Fall*
- Machine Learning, Deep Learning, and Computer Vision Study Group   *Jun. 2019 - Oct. 2020*

Honors & Awards

Dean's List Award (for the top 3 in the class)   *2018 Spring*
IROS Travel Award   *Nov. 2022*

Professional Skills

- Programming: C++, Python (Tensorflow, PyTorch), MATLAB
- Operating System: Windows, Linux, Ubuntu
- Languages: Chinese (native speaker), English (professional working proficiency)