Chieh Hubert Lin

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Education

Ph.D. at University of California, Merced (UC Merced) *Sep. 2020 - Now* *Merced, CA, U.S.*

- Advisor: Ming-Hsuan Yang.
- Works on general topics in computer vision and generative modeling.

Bachelor at National Tsing-Hua University (NTHU) *Sep. 2013 - June. 2018* *Hsingchu, Taiwan*

- Graduated with CS major GPA: 3.65/4.3.
- At graduation, Hubert has published one paper to ECCV as a co-first author and submitted one paper as a first author.

Publications

(* indicates equal contribution.)

[1] InstaNAS: Instance-aware Neural Architecture Search ***AAAI'20***

An-Chieh Cheng*, ***Chieh Hubert Lin****, Da-Cheng Juan, Wei Wei, Min Sun *Feb. 2020*

- Proposes and investigates instance-aware setting for neural architecture search (NAS). [Paper] [Project Page]

[2] COCO-GAN: Generation by Parts via Conditional Coordinating (oral presentation) ***ICCV'19***

Chieh Hubert Lin, Chia-Che Chang, Yu-Sheng Chen, Da-Cheng Juan, Wei Wei, Hwann-Tzong Chen *Mar. 2019*

- Proposes the conditional coordinating framework with a wide-range of applications. [Paper] [Project Page]

[3] Point-to-Point Video Generation ***ICCV'19***

Tsun-Hsuan Wang*, Yen-Chi Cheng*, ***Chieh Hubert Lin***, Hwann-Tzong Chen, Min Sun *Mar. 2019*

- Proposes a new video generative model setting that can benefit video editing. [Paper] [Project Page]

[4] Toward Instance-aware Neural Architecture Search ***ICML'19 AutoML Workshop***

An-Chieh Cheng*, ***Chieh Hubert Lin****, Da-Cheng Juan, Wei Wei, Min Sun *Jun. 2019*

- A technical report for InstaNAS [1].

[5] 3D LiDAR and Stereo Fusion using Stereo Matching Network with Conditional Cost Volume Normalization ***IROS'19***

Tsun-Hsuan Wang, Hou-Ning Hu, ***Chieh Hubert Lin***, Yi-Hsuan Tsai, Wei-Chen Chiu, Min Sun *Apr. 2019*

- Proposes a normalization mechanism for fusing sparse sensory data (3D LiDAR) and dense imagery data (stereo image). [Paper] [Project Page]

[6] Escaping from Collapsing Modes in a Constrained Space ***ECCV'18***

Chia-Che Chang*, ***Chieh Hubert Lin****, Che-Rung Lee, Da-Cheng Juan, Wei Wei, Hwann-Tzong Chen *Mar. 2018*

- A light-weight solution toward the mode-collapsing problem of BEGAN. [Paper]

Professional Activities

Served as a reviewer for conferences such as CVPR, ICCV, ECCV, ICML and AAAI.

Research Experience

Visiting Scholar @ Virginia Tech VLLab *Sep. 2019 - Jan. 2020* *Blacksburg, VA, U.S.*

- Conducting research on 3D image rendering and GANs, supervised by Prof. Jia-Bin Huang (VT).

Research Assistant @ NTHU VSLab *Jul. 2018 - Aug. 2019* *Taiwan*

- Conducting research on neural architecture search and meta-learning, supervised by Prof. Min Sun (NTHU), Prof. Wei-Chen Chiu (NCTU), Dr. Da-Cheng Juan (Google AI) and Dr. Wei Wei (Google AI).
- Conducting research on GANs with bare time, supervised by Prof. Hwann-Tzong Chen (NTHU), Dr. Da-Cheng Juan (Google AI) and Dr. Wei Wei (Google AI).
- Four papers accepted to ICCV'19, IROS'19 and AAAI'20.

Student Researcher @ NTHU *Jun. 2017 - Feb. 2018* *Taiwan*

- Conducting research on GANs, supervised by Prof. Hwann-Tzong Chen (NTHU).
- One paper accepted to ECCV'18.

Work Experience

Full-Year Intern @ Microsoft BingGC team *Jul. 2017 - Jun. 2018* *Taiwan*

- BingGC team develops the next generation maps engine based on machine learning algorithms.
- Responsible for analyzing the failures of machine learning models, improving model performance and fixing low-level system issues.
- Develops a visualization framework for model dissection.

Honors & Awards

Sep. 2019 **Yahoo AI Scholarship**, Yahoo

Aug. 2019 **Appier AI Scholarship**, Appier

Aug. 2018 **Appier AI Scholarship**, Appier

Dec. 2017 **Honorable Mention**, Ministry of Science and Technology GAN Workshop