Hsuan-I Ho

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Education

ETH Zurich, Zürich, Switzerland *(Sep 2018 –)*

MSc in Computer Science

National Taiwan University, Taipei, Taiwan *(Sep 2012 – June 2016)*

B.S. in Electrical Engineering

- Overall GPA: 4.12/4.30, Major GPA: 4.17/4.30
- Overall Ranking: 12/190 (6.3%)

Tokyo Institute of Technology, Tokyo, Japan *(Sep 2015 – Mar 2016)*

YSEP (Young Scientist Exchange Program) in Department of Computer Science

- Academic Record: 91.4/100

Experience

Vision and Learning Lab, National Taiwan University *(Mar 2017 – July 2018)*

Multimedia and Machine Learning Lab, Academia Sinica

- Advisor: Prof. Yu-Chiang Frank Wang
- Researched on Deep Learning, Domain Adaptation and Egocentric Video Summarization.
- Served as AAAI, CVPR, ICIP, ECCV, NIPS external reviewer.

Media IC & System Lab, National Taiwan University *(Mar 2016 – Jan 2017)*

- Advisor: Prof. Shao-Yi Chien
- Researched on Augmented Reality, Pose Estimation and Object Pose Tracking.
- Proposed new benchmark dataset for evaluating 6DoF object pose tracking.

Koike Laboratory, Tokyo Institute of Technology *(Sep 2015 – Mar 2016)*

- Advisor: Prof. Hideki Koike
- Researched on Human-Computer Interface, Machine Learning and Projector Camera System.
- Served as student volunteer for WISS2015(Workshop on Interactive Systems and Software).

Teaching

Teaching Assistant, *Deep Learning for Computer Vision* [Link] *(Mar 2018 – June 2018)*

Lecturer, *Deep Learning Crash Course for Master Students* [Link] *(July 2018)*

Publications

Hsuan-I Ho, Wei-Chen Chiu, Yu-Chiang Frank Wang, "Summarizing First-Person Videos from Third Persons' Points of Views", in European Conference on Computer Vision (ECCV), 2018. [PDF]

Po-Chen Wu, Yueh-Ying Lee*, Hung-Yu Tseng*, **Hsuan-I Ho***, Ming-Hsuan Yang, and Shao-Yi Chien, "A Benchmark Dataset for 6DoF Object Pose Tracking", in IEEE International Symposium on Mixed and Augmented Reality (ISMAR Adjunct), 2017. (*- indicate equal contribution) [PDF, Project page]

Selected Project

Summarizing First-Person Videos From Third Person's Point of View *(Mar 2017 – Mar 2018)*
Published on ECCV 2018, Vision and Learning Lab

- Proposed framework for learning first-person video summarization when lacking in annotated first-person training data.
- Combined domain adaptation, deep semi-supervised learning with video summarization.

A Benchmark Dataset for 6DOF Object Pose Tracking [Project page] *(Mar 2016 – Jan 2017)*
Published on ISMAR 2017, Media IC & System Lab

- Created large-scale 6DoF pose tracking dataset for both 2D and 3D pose tracking algorithms.
- Performed detailed evaluation and comparison of state-of-the-art algorithms.

Mobile RGB-D Projector Camera System *(Sep 2015 – Mar 2016)*
Exchange Research Program, Koike Laboratory

- Implemented innovative projector camera system handling RGB-D object tracking.
- Learned machine learning techniques and applied to human computer interface.

Bicycle Turning Detection System [Video] *(May 2016 – June 2016)*
Biomedical Engineering, National Taiwan University

- Implemented embedded system on bicycle to automatically detect turning behaviors.
- Designed EMG and EEG detection circuits and turn signals control circuits in system.

Honors

Appier Artificial Intelligence and Information Technology Research Scholarship (2018)
1st Prize of MOST Generative Adversarial Networks Project Competition (2017)
3rd Prize of 2016 Agrithon (Agricultural Hackathon) in Taiwan *(2016)*
JASSO Exchange Student Scholarship *(2015)*
Nominated by InnovateAsia FPGA and SoC Design Contest [Video] *(2014)*

Skills

Language: Chinese(Native) / English(Fluent) / Japanese(Fluent) / Deutsch(Beginner)
Programming: Python, C/C++, MATLAB
Software/Toolkit: TensorFlow, Keras, PyTorch, OpenCV, Unity, Blender, Qt