Cheng-En Wu

८ (+886) 916-655-967 **≥** seraphim415@hotmail.com **↑** https://cewu.github.io/

EDUCATION

National Tsing Hua University

Master of Science in Computer Science

Hsinchu, Taiwan Sep. 2014 - Jul. 2016

• Overall GPA: 4.19/4.30

• Advisor: Prof. Jia-Shung Wang

National Taiwan University of Science and Technology

Bachelor of Science in Electrical and Computer Engineering

Taipei, Taiwan Sep. 2009 - Jun. 2012

• Overall GPA: 3.67/4.00

RESEARCH EXPERIENCE

Academia Sinica Taipei, Taiwan Research Assistant Mar. 2018 - Present

• Developed a approach to merge well-trained neural networks for multiple tasks.

• Built a tool for automatically merging all kinds of neural networks.

• Advisor: Prof. Chu-Song Chen

National Tsing Hua University

Research Assistant

Hsinchu, Taiwan

Sep. 2014 - Aug. 2016

• Designed a real-time vehicle tracking system for visual surveillance.

• Advisor: Prof. Jia-Shung Wang

ITRI Inc. Hsinchu, Taiwan Research Assistant Jul. 2015 - Aug. 2015

• Developed MultiPath TCP to achieve high throughput of wireless networks.

PUBLICATIONS

Steven C. Y. Hung, Cheng-Hao Tu, Cheng-En Wu, Chien-Hung Chen, Yi-Ming Chan, and Chu-Song Chen "Compacting, Picking and Growing for Unforgetting Continual Learning." Thirty-third Conference on Neural Information Processing Systems, (NeurIPS) 2019, December 2019

Cheng-En Wu, Yi-Ming Chan, Chien-Hung Chen, Wen-Cheng Chen, and Chu-Song Chen "IMMVP: An Efficient Daytime and NighttimeOn-Road Object Detector." IEEE 19th International Workshop on Multimedia Signal Processing (MMSP), September 2019

Cheng-En Wu, Yi-Ming Chan and, Chu-Song Chen "On Merging MobileNets for Efficient Multitask Inference." Energy Efficient Machine Learning and Cognitive Computing for Embedded Applications (EMC²) Workshop in the 25th IEEE International Symposium on High-Performance Computer Architecture (HPCA), February 2019

Cheng-En Wu, Wen-Yen Yang, Hai-Che Ting, and Jia-Shung Wang "Traffic pattern modeling, trajectory classification and vehicle tracking within urban intersections." International Smart Cities Conference (ISC2), September 2017

WORK EXPERIENCE

MediaTek Inc.

Hsinchu, Taiwan Software Engineer Mar. 2017 - Mar. 2018

- Developed mobile GPU drivers to boost run-time of applications using neural networks.
- Migrated ARM Mali GPU drivers to the Android platform.

Realtek Inc. Hsinchu, Taiwan

Software Engineer

• Developed H.264 encoder drivers for TV SOCs.

GOTrust Technology Inc.

Software Engineer

Taichung, Taiwan Jan. 2014 - Jun. 2014

Dec. 2016 - Mar. 2017

- Developed middlewares for the secure MicroSD card
- Established an MFC-based testing tool for the production of secure MicroSD cards.

SELECTED PROJECTS

Urban Computing

Hsinchu, Taiwan

National Tsing Hua University, Visual Communication Lab

Sep. 2015 - Jun. 2016

- Designed a real-time vehicle tracking method in a surveillance camera.
- Developed a system for trajectory classification and tracklet prediction.

Gesture Recognition

Taipei, Taiwan

National Taiwan University of Science and Technology

Mar. 2010 - Feb. 2011

- Developed a method for detecting the number of fingers raised.
- Built an Android App for gesture control of PowerPoint presentations.

PROGRAMMING SKILLS

TensorFlow, PyTorch, OpenCV, Caffe, C, C++, Python, Matlab, Android, Java