

Cheng-En Wu

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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

Research Assistant

Taipei, Taiwan

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.

Research Assistant

Hsinchu, Taiwan

Jul. 2015 - Aug. 2015

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

PUBLICATION

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 Nighttime On-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 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

WORK EXPERIENCE

MediaTek Inc.

Software Engineer

Hsinchu, Taiwan
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.

Software Engineer

Hsinchu, Taiwan
Dec. 2016 - Mar. 2017

- Developed H.264 encoder drivers for TV SOCs.

GOTrust Technology Inc.

Software Engineer

Taichung, Taiwan
Jan. 2014 - Jun. 2014

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

SELECTED PROJECTS

Urban Computing

National Tsing Hua University, Visual Communication Lab

Hsinchu, Taiwan
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

National Taiwan University of Science and Technology

Taipei, Taiwan
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