TING-KUEI HU

Email:a0989741818@hotmail.com
Phone:(+886)976998510
Website: tingkuei.github.io

EDUCATION	**B.S. Electronics Engineering - National Chiao Tung University** (GPA: 3.89/4.3) -Top 3 EE in Taiwan.	2010-2014
RESEARCH INTEREST	Computer Vision, Deep Learning, Mobile Computing, Embedded Deep Learning	
PUBLICATION	**Learning Adaptive Hidden Layers for Mobile Gesture Recognition** Ting-Kuei Hu, Yen-Yu Lin, Pi-Cheng Hsiu AAAI Conference on Artificial Intelligence (AAAI), 2018 **A Reliable Brain Computer Interface Implemented on an FPGA for a Mobile Dialing System** Chih-Wei Feng, Ting-Kuei Hu, Jui-Chung Chang, Wai-Chi Fang IEEE International Symposium on Circuits & Systems (ISCAS), 2014	
AWARD	Academy Performance Award (top 5%, 2 times)	
EXPERIENCE	Research Assistant - Academia Sinica	2014-2017
	Project Assistant – National Chiao Tung University	2013-2014
PROJECT	**Learning Adaptive Hidden Layers for Mobile Gesture Recognition** @ Academia Sinica -proposed a deep learning based approach for gesture recognition on mobile devices. Specifically, we introduce a new network layer, called an adaptive hidden layer (AHL), which generalizes a hidden layer in DNNs and can dynamically generate an appropriate activation map for a given input.	2015-2017
	Oasis Exploration @ Academia SInica -completed a system for providing mobile end user with a convenient user experience by performing analysis on 3G signal and recommending users to travel to a spot with enough data rate. A user-satisfactory function is proposed to characterize the willingness of end-users with respect to their traveling distance.	2014-2016
	Brain Computer Interface implementation @ NCTU -demonstrated a high performance brain computer interface (BCI) that allows users to dial phone numbers. The system is based on Canonical Correlation Analysis (CCA) and Steady-State Visual Evoked Potential (SSVEP).	2013-2014
SKILL	Languages: C/C++, MATLAB, python, java Tools: TensorFlow, Theano, Keras, Android SDK	
Leadership Activity	**Invited talk @ Appier** -title "Learning Adaptive Hidden Layers for Mobile Gesture Recognition"	expected
	Host of Open House @ Academia Sinica -title "Gesture Recognition and Human-Robot Interaction"	2017
	Demo section for Advisory Committee @ Academia Sinica -title "Gesture Recognition and Human-Robot Interaction"	2017
	Co-host of Open House @ Academia Sinica -title **"A Win-Win Camera: Quality Enhanced Power-Saving Images on Mobile OLED Displays"**	2015
	Co-host of Open House @ Academia Sinica -title "Catch Your Attention: Quality-retaining Power Saving for Mobile OLED Displays"	2014