Chieh Hubert Lin

Research Assistant • Taiwan • hubert052702@gmail.com

Bio: Learn, until machine can do it for me.

Hubert receives his bachelor in NTHU and now working with Prof. Min Sun as a research assistant.

Hubert's research interest is mainly in generative models and neural architecture search. He believes that the generative model is a very important way to visualize and empirical proof that the machine intelligence can fully understand the data and the implicit meanings behind the scene. In the meanwhile, neural architecture search is the key-stone to fully-automated model design, which will make the next break-through in deep learning.

Hubert is also looking for a Ph.D. position in 2020.

Experience

Research Assistant @ NTHU VSLab, Jul. 2018 - Present

Joined VSLab in NTHU as a research assistant.

Software Engineer Intern @ Microsoft Taiwan, Jul. 2017 - Jun. 2018

Responsible for internal model training. Also, assist my mentor to go through data analyzing and system risks identification by diving into data and team production code base.

- Help improve the accuracy of the spelling correction system and ranking model.
- Identified several potential issues with the delivered system.
- Independently developed a web visualization tool for system and model analysis.

Bachelor @ Department of Computer Science of NTHU, Sep. 2013 - Jun. 2018

I originally joined the Interdisciplinary Program of Science of NTHU, selected Physics and Math as majors. Then transferred to the Department of Computer Science and received my bachelor. My average GPA in Computer Science is 3.57/4.0.

Publications

Escaping from Collapsing Modes in a Constrained Space
European Conference on Computer Vision (**ECCV**'18) [Poster]
Chia-Che Chang*, **Chieh Hubert Lin***, Che-Rung Lee, Da-Cheng Juan, Wei Wei, Hwann-Tzong Chen

Honors

MOST GAN workshop competition
Excellent work award
Chia-Che Chang*, **Chieh Hubert Lin***, Yu-Chun Lo*

Our topic is "Improved CycleGAN on Unsupervised Human-Anime Image Translation", which implemented CycleGAN with multiple improvements.

* MOST = Ministry of Science and Technology of Taiwan

🏆 The Cutting Edge of Deep Learning Final Project Competition

Excellent work award

<u>Chieh Hubert Lin</u>*, Yu-Chun Lo*

Our topic is "Multi-task Learning for Grammatical Error Detection and Correction". We identify, analyze and propose a simple loss toward the low-precision problem of sequence-to-sequence learning in grammatical error detection and correction task.

🏆 Kaggle - Quora Question Pair Competition

Competition bronze medal & kernal sharing silver medal

<u>Chieh Hubert Lin</u>*, Yu-Chun Lo*Chieh*

We build a machine learning model to discriminate if any given question pair is duplicated. We also propose a simple method of resolving out-of-vocabulary tokens with name-entity-replacement strategy, and win a silver medal in kernel sharing track.