WILSON CHANG

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PROFESSIONAL SUMMARY

Skilled in computer vision and deep learning implementation with experience in conducting intense experiment for top conference. **One paper accepted by CVPR'19.** With physics and electric engineering background, good at comprehending the meaning of machine learning algorithms and deriving them.

SKILLS

- Computer vision, machine learning, physics, and electric engineering
  - image segmentation, domain adaptation, transfer learning, image style transfer
  - reinforcement learning
  - linear algebra, random process, detection and estimation, digital signal process
- Programming
  - C/Python/Pytorch for implementation of deep learning algorithm
  - cuda, multi-thread programming
  - system programming

LANGUAGE

- English

  Reading - Fluent
  Writing - Fluent
  Speaking - Intermediate
  Listening - Intermediate

WORK EXPERIENCE

Computer Vision Teacher Assistant | NCTU - Hsinchu
02/2019 - 06/2019

Internship | Industrial Technology Research Institute - Hsinchu
07/2017 - 09/2017

Assist to develop deep learning based image recognition algorithm, e.g. annotating image label, image preprocessing and verification.

Internship | YoungOptics Inc - Hsinchu 07/2016 - 09/2016

Develop algorithms of optical inspection, e.g. capturing the feature of an object and calibration.

EDUCATION

National Chiao Tung University, Hsinchu 2019
M.S., Electronic Engineering

Advisor: Prof. Wei-Chen Chiu and Prof. Sheng-Jyh Wang

- Main course: deep learning and practice, detection and estimation, digital communication and online course CS294-113 (deep reinforcement learning in Standford).

National Chiao Tung University, Hsinchu 2017

B.S., Photonics

- Main course: calculus, random processing, linear algebra, digital signal process, digital image processing and operation system.

PROJECT

2015.09-2016.09

ANFIS architecture quadcopter.

- Advisor : Jhih-Hong Chen (NCTU)

In this project, I try to implement a quadcopter by myself. The work includes analyzing different control theory, and coordinating hardware and software systems.

2018.02-2018.11

All about Structure: Adapting Structural Information across Domains for Boosting Semantic Segmentation. Accepted by CVPR'19

- Topic of : Unsupervised domain adaptation for the task semantic segmentation
- Advisors : Wei-Chen Chiu, Wen-Hsiao Peng (NCTU)
- Collaborator : Hui-Po Wang (NCTU)

We attempt to transfer the knowledge learned upon synthetic datasets with ground-truth labels to real-world images without any annotation.

2018.11-Present

Learning to cluster by robust similarity function for transferring knowledge across domain and task. Target for NeurIPS

- Topic and : Unsupervised domain adaptation across domains tasks for classification
- Advisors : Wei-Chen Chiu, Wen-Hsiao Peng (NCTU)
- Collaborator : Hui-Po Wang (NCTU)

This work aims to transfer similarity information across different classification scenario and reduce the discrepancy across domains.

ACTIVITY

2014.09-2015.09
Team leader of baseball team, department of Photonics, NCTU

2015.09-2016.06
Club leader in koinonia (christian fellowship club)

Every Aug. in 2014-2018
Team leader in berkeley leadership undergraduate exchange camp, which is full English camp for 6 days