Ting-I Hsieh

Contact Information

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Education

National Tsing-Hua University (NTHU), Hsinchu, Taiwan 2017/09 - Present

Master of Science in Computer Science - Vision and Learning Lab
Advisor: Prof. Hwann-Tzong Chen

National Central University (NCU), Taoyuan, Taiwan 2013/09 - 2017/06

Bachelor of Science in Information Management

Research Projects

One-shot Learning in Object Detection 2019/01 - 2019/06

- NeurIPS 2019 accepted : One-Shot Object Detection with Co-Attention and Co-Excitation
- Co-attention: Perform mutual non-local operation on convolution features pair
- Co-excitation:Use channel attention excites co-attended convolution feature pair

iStaging Layout Reconstruction Project 2018/07 - 2019/03

- Use panorama to predict bounding box of the door and window
- Door information can be used to stitch room layout

MOST SmartPano Project 2017/09 - 2018/12

- Technical report : Hallucinating 360-degree Scenes
- Combine SFM and GAN for generating the high resolution scene
- Propose a system that takes low-resolution 360-degree video into high resolution scene

Publications

International Conference

Ting-I Hsieh, Yu-Chun Lo, Hwann-Tzong Chen, Tyng-Luh Liu “ One-Shot Object Detection with Co-Attention and Co-Excitation” NeurIPS 2019

Technical report

Ting-I Hsieh, Chia-Ming Cheng, Hwann-Tzong Chen “ Hallucinating 360-degree Scenes”

Awards

B.S. in National Central University (NCU)

The champion of APICTA awards 2016/12

- Asia Pacific's most influential technology competition in the telecommunications industry

M.S. in National Tsing-Hua University (NTHU)

Course final project competition 2018/01

- Won first prize on (The Cutting Edge of Deep Learning) course
- Won first prize on (Computer Vision) course

Internship Experience

aixport Electronics Inc. (automatic object detection device) 2019/06-Present

- Use GAN to make synthetic more natural
- Use GAN to make segmentation tool more quickly
- Use object detection to detect object bounding box
- Use classification to predict the object categories

oToBrite Electronics Inc. (vehicle auxiliary device) 2018/07-2018/09

- Use CARLA simulator to generate virtual world images for object detection
- Use GAN to transfer virtual world images into real images

Teaching Assistant Experience

M.S. in National Tsing-Hua University (NTHU)

- Introduction to Programming 2018/09 - 2019/01
- Computer Vision for Visual Effects 2019/02 - 2019/06

Skills and Competencies

Skills: Java, Python, C, C++, HTML, JavaScript, AndroidStudio

Deep learning framework: PyTorch, TensorFlow