Tsung-Wei Ke

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Overview

My research interest is in understanding the structures and contexts embedded in the image. My recent research is about representation learning for weakly supervised and unsupervised image segmentation. I've published several papers in the top-tier peer-reviewed conference in computer vision.

Education

Ph.D. candidate,	University of California, Berkeley,	in Vision Science Program
	Computer vision and human vision,	Advisor: Dr. Stella Yu
B.S.,	National Taiwan University,	in Chemical Engineering

Selected Publications

Universal Weakly Supervised Segmentation by Pixel-to-Segment Contrastive Learning
Tsung-Wei Ke, Jyh-Jing Hwang and Stell Yu — ICLR 2021

Adversarial Structure Matching for Structured Prediction Tasks
Jyh-Jing Hwang*, **Tsung-Wei Ke***, Jianbo Shi and Stella X. Yu — CVPR2019

Adaptive Affinity Field for Semantic Segmentation
Tsung-Wei Ke*, Jyh-Jing Hwang*, Ziwei Liu and Stella X. Yu — ECCV2018

MultiGrid Neural Architecture
Tsung-Wei Ke, Michael Maire and Stella X. Yu — CVPR2017

Mooney Face Classification And Prediction By Learning Across Tone
Tsung-Wei Ke, Stella X. Yu and David Whitney — ICIP2017 **oral**

Mooney Faces from Photos
Tsung-Wei Ke, Stella X. Yu and David Whitney — VSS2017 **oral**

Variational Convolutional Networks for Human-Centric Annotations
Tsung-Wei Ke, Che-Wei Lin, Tyng-Luh Liu, Davi Geiger — ACCV2016 **oral**

Appointments

2021-2021: Research Intern, Waymo LLC, Mountain View

2018-2020: Research Fellow, University of California, Berkeley
- participated in the project of animal detection and classification in wildlife with USGS
- participated in the project of scene segmentation in aerial imagery with Samsung

2018, 2019: Graduate Teaching Assistant, University of California, Berkeley

2016-2018: Research Associate, International Computer Science Institute, Berkeley
- participated in the project of material recognition in cityscape imagery with Samsung
- participated in the project of particle screening for X-ray crystallography with NLBL