Title: Pixel Intelligence

Abs: In this talk, Prof. Wei will introduce his research in how to make computers understand images/videos from pixel-level. In particular, his research outputs related to semantic segmentation, human pasing, interactive segmentation, video object segmentation/matting, etc. will be introduced. These works achieved state of the art results on many popular benchmarks including Pascal VOC, COCO, LIP, Cityscapes, DAVIS, and Youtube VOS. Besides, some of them further helped win the world famous challenges, like human parsing tracks of LIP in 2018 and 2019, video object segmentation tracks of DAVIS in 2020 and Youtube VOS in 2021.

Bio: Yunchao Wei is a full Professor of Beijing Jiaotong University. He was a Senior Lecturer of Australian Artificial Intelligence Institute at the University of Technology Sydney from 2019 to 2021. He was a Postdoctoral Researcher in Beckman Institute at UIUC from 2017 to 2019, and a Postdoctoral Researcher of National University of Singapore from 2016 to 2017. He received his Ph.D. degree from Beijing Jiaotong University in 2016. He was named as one of the five top early-career researchers in Engineering and Computer Sciences in Australia by The Australian in 2020. He received the Discovery Early Career Researcher Award of the Australian Research Council in 2019, the 1st Prize in Science and Technology awarded by China Society of Image and Graphics (CSIG) in 2019. He has published more than 80 papers in top-tier conferences/journals, Google Citation 7800+. He received many competition prizes from CVPR/ICCV/ECCV, such as the Winner prizes of ILSVRC 2014, LIP 2018/2019, Youtube VOS 2021, Runner-up Prizes of ILSVRC 2017, DAVIS 2020, etc. He organized many workshops on top-tier conferences, including Learning from Imperfect Data Workshop series (CVPR 2019, 2020, 2021) and Real-world Recognition from Low-quality Inputs Workshop series (ICCV 2019, ECCV 2020). His current research interest focuses on applying deep learning to computer vision tasks including classification, object detection, and segmentation.