Kaihong Wang

Boston University, Boston, MA

+1 857-654-5276 ⋄ kaiwkh@bu.edu ⋄ [Webpage] ⋄ [Google Scholar]

RESEARCH INTERESTS

Un/Semi-/Self-supervised Learning, Domain Adaptation, Pose Estimation, Semantic Segmentation

EDUCATION

Boston University   Feb. 2020 - Present
Ph.D., Department of Computer Science
Advisor: Margrit Betke
GPA: 3.88/4.00

Boston University   Sep. 2018 - Jan. 2020
M.S., Department of Computer Science
Advisor: Margrit Betke
GPA: 3.93/4.00

South China University Of Technology (SCUT)   Sep. 2014 - June 2018
B.E., Department of Software Engineering.
GPA: 3.59/4.00

PUBLICATIONS

Wang K, Zhang L, Zhang J, "Detecting Human Artifacts from Text-to-Image Models", ArXiv. [Paper][Code]

Wang K, Kim D, Feris R, Saenko K, Betke M, "Exploring Consistency in Cross-Domain Transformer for Domain Adaptive Semantic Segmentation", ICCV 2023. [Paper][Code]

Wang K*, Kim D*, Saenko K, Betke M, Sclaroff S, "A Unified Framework for Domain Adaptive Pose Estimation", ECCV 2022. [Paper][Code]

Kim D, **Wang K**, Sclaroff S, Saenko K, "A Broad Study of Pre-training for Domain Generalization and Adaptation", ECCV 2022. [Paper][Code]

Wang K, Akash K, Teruhisa M. "Learning Temporally and Semantically Consistent Unpaired Video-to-video Translation Through Pseudo-Supervision From Generated Optical Flow", AAAI 2022. [Paper][Code]

Wang K, Yang C, Betke M. "Consistency Regularization with High-dimensional Non-adversarial Source-guided Perturbation for Unsupervised Domain Adaptation in Segmentation", AAAI 2021. [Paper] [Code]

Yang C, Ablavsky V, **Wang K**, et al. "Learning to Separate: Detecting Heavily-Occluded Objects in Urban Scenes", ECCV 2020. [Paper] [Code]

Wang K*, Jalal M*, Jefferson S, et al."Scraping Social Media Photos Posted in Kenya and Elsewhere to Detect and Analyze Food Types",Proceedings of the 5th International Workshop on Multimedia Assisted Dietary Management. ACM. [Paper] [Code]

WORK EXPERIENCE

Adobe Research   Aug. 2023 - Dec. 2023
Research Scientist/Engineer Intern

- Research Topic: Improving Human Structural Coherence in Diffusion Models

- Supervisor: Dr. Jianming Zhang

Amazon   Jun. 2022 - Aug. 2022
Applied Scientist Intern

- Research Topic: Self-supervised Learning

- Supervisor: Dr. Sharon Alperts

Honda Research Institute, USA   Jan. 2021 - May. 2021
Research Intern

- Research Topic: Unpaired Video-to-Video Translation

- Supervisor: Dr. Kumar Akash, Dr. Teruhisa Misu

PATENTS

Misu T, Akash K, **Wang K**. System and method for learning temporally consistent video synthesis using fake optical flow: U.S. Patent Application 17/500,176[P]. 2022-12-1.

TEACHING EXPERIENCE

Boston University

- 2022 Spring: CS542 Machine Learning, Teaching Fellow.

- 2021 Fall: CS506 Computational Tools for Data Science, Teaching Fellow.

- 2020 Fall: CS440 Artificial Intelligence, Teaching Fellow.

PROFESSIONAL ACTIVITIES

- Reviewer of CVPR 2021, 2022, ECCV 2022, ICCV 2023

- Program Committee Member of AAAI 2023

AWARDS

Second prize scholarship of South China University Of Technology	2016
Merit Student of South China University Of Technology	2016