

Guangrui Li

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EDUCATION

University of Technology Sydney

Sydney, Australia

Ph.D. Candidate in Computer Science (Advisor: Prof. Yi Yang)

July 2019 – Dec 2023 (Expected)

Chongqing University

Chongqing, China

B.E. in Software Engineering

Sep. 2014 – June 2018

PROFESSIONAL EXPERIENCE

Baidu Research

Beijing, China

Research Intern (Host: Dr. Yifan Sun)

Sep 2021 – Aug 2022

RESEARCH INTEREST

Keywords: Computer Vision, Transfer Learning, Open-world Learning.

1. Transfer learning of vision structures: Transfer learning on 2D / 3D semantic segmentation (rigid structures), and pose estimation (non-rigid structures).

2. LLMs-guided Open-world learning [ongoing]: Open-set / world learning in object detection and scene understanding guided by Large-Language-Models (LLMs).

PUBLICATIONS

1. Content-Consistent Matching for Domain Adaptive Semantic Segmentation
European Conference on Computer Vision (**ECCV**), 2020.
Guangrui Li, Guoliang Kang, Wu Liu, Yunchao Wei, and Yi Yang
2. Domain Consensus Clustering for Universal Domain Adaptation
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.
Guangrui Li, Guoliang Kang, Yi Zhu, Yunchao Wei, and Yi Yang
3. VSPW: A Large-scale Dataset for Video Scene Parsing in the Wild
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.
Jiaxu Miao, Yunchao Wei, Yu Wu, Chen Liang, Guangrui Li, Yi Yang
4. Decompose to Generalize: Species-Generalized Animal Pose Estimation
International Conference on Learning Representations (**ICLR**), 2023.
Guangrui Li, Yifan Sun, Zongxin Yang, and Yi Yang
5. Adversarially Masking Synthetic to Mimic Real: Adaptive Noise Injection for Point Cloud Segmentation Adaptation
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023.
Guangrui Li, Guoliang Kang, Xiaohan Wang, Yunchao Wei, and Yi Yang
6. Construct to Associate: Cooperative Context Learning for Domain Adaptive Point Cloud Segmentation
In submission.
Guangrui Li, Guoliang Kang, Yunchao Wei, and Yi Yang
7. Decouple to Contrast: Orthogonalized Ambiguity Reduction for Open-Vocabulary Object Detection
In submission
Guangrui Li, Yifan Sun, Zongxin Yang, Errui Ding, Yi Yang

ACADEMIC SERVICES

Reviewer of IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
Reviewer of IEEE Transactions on Knowledge and Data Engineering (TKDE)
Reviewer of IEEE Transactions on Image Processing (TIP)
Reviewer of Elsevier Knowledge-Based Systems (KBS)