YANWEI LI

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Ho Sin-Hang Engineering Building, The Chinese University of Hong Kong.

ABOUT ME

I'm Yanwei Li, a Ph.D student in Department of Computer Science and Engineering, The Chinese University of Hong Kong (CUHK), supervised by Prof. Jiaya Jia. My research interest mainly focuses on instance-level and semantic segmentation.

EDUCATION

The Chinese University of Hong Kong   **Hong Kong, China**
Ph.D, Computer Science, 2024 (expected)   *Sep. 2020 - Present*
Fields: Computer Vision

Institute of Automation, Chinese Academy of Sciences   **Beijing, China**
M.Phil, Pattern Recognition, 2020   *Sep. 2017 - Jun. 2020*
Fields: Computer Vision

Central South University   **Changsha, China**
B.E., Automation & Mechanical Engineering   *Sep. 2013 - Jun. 2017*
Overall GPA: 89.52/100, Rank: Top 5%

EXPERIENCE

Megvii Research   **Beijing, China**
Fields: Network design for segmentation   *Jan. 2019 - Nov. 2020*
Research Intern

Horizon Robotics   **Beijing, China**
Fields: Panoptic segmentation   *Apr. 2018 - Dec. 2018*
Research Intern

IBM Research   **Beijing, China**
Fields: Fine-grained recognition   *Aug. 2017 - Jan. 2018*
Research Intern

PUBLICATIONS

* denotes equal contribution

Fully Convolutional Networks for Panoptic Segmentation   *Dec. 2020*
Yanwei Li, Hengshuang Zhao, Xiaojuan Qi, Liwei Wang, Zeming Li, Jian Sun, Jiaya Jia

CVPR 2021 **(Oral)** [Paper] [Code]

Scale-aware Automatic Augmentation for Object Detection   *Dec. 2020*
Yukang Chen*, **Yanwei Li***, Tao Kong, Lu Qi, Ruihang Chu, Lei Li, Jiaya Jia

CVPR 2021

Fine-Grained Dynamic Head for Object Detection   *Nov. 2020*
Lin Song, **Yanwei Li**, Zhengkai Jiang, Zhengkai Jiang, Zeming Li, Hongbin Sun, Jian Sun, Nanning Zheng

NeurIPS 2020 [Paper] [Code]

Rethinking Learnable Tree Filter for Generic Feature Transform   *Nov. 2020*
Lin Song, **Yanwei Li**, Zhengkai Jiang, Zeming Li, Xiangyu Zhang, Hongbin Sun, Jian Sun, Nanning Zheng

NeurIPS 2020 [Paper] [Code]

Learning Dynamic Routing for Semantic Segmentation   *Feb. 2020*
Yanwei Li, Lin Song, Yukang Chen, Zeming Li, Xiangyu Zhang, Xingang Wang, Jian Sun

CVPR 2020 **(Oral)** [Paper] [Code] [Slides]

Learnable Tree Filter for Structure-preserving Feature Transform *Sep. 2019*
Lin Song, **Yanwei Li***, Zeming Li, Gang Yu, Hongbin Sun, Jian Sun, Nanning Zheng*

NeurIPS 2019 [Paper] [Code]

Attention-guided Unified Network for Panoptic Segmentation *Feb. 2019*
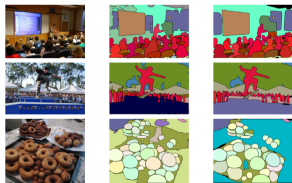***Yanwei Li**, Xinze Chen, Zheng Zhu, Lingxi Xie, Guan Huang, Dalong Du, Xingang Wang*

CVPR 2019 [Paper]

Identity-Enhanced Network for Facial Expression Recognition *Oct. 2018*
***Yanwei Li**, Xingang Wang, Shilei Zhang, Lingxi Xie, Wenqi Wu, Hongyuan Yu, Zheng Zhu*

ACCV 2018 [Paper]

WORKSHOP & COMPETITION

MicroSoft COCO 2018 Panoptic Challenge **Munich, Germany**
***Yanwei Li**, Naiyu Gao*, Chaoxu Guo, et.al.* *(* denotes equal contribution)*
- Achieve **2nd** place
- Propose an end-to-end framework for panoptic segmentation with high performance.
- Oral in **ECCV** 2018 Workshop [Presentation]

AWARDS AND HONORS

Post-Graduate Scholarship *2020-2024*
National Scholarship (Top 0.2% students in China) *Nov, 2019*
National Scholarship (Top 0.2% students in China) *Nov, 2016*
National Encouragement Scholarship *Nov, 2015*