

YANWEI LI

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ABOUT ME

Research Interest: 2D/3D Scene Understanding, Panoptic Segmentation, Automatic Network Design

Programming: Python, PyTorch, MXNet, C++

English: IELTS 7.0

EDUCATION

Institute of Automation, Chinese Academy of Sciences

M.Phil, Pattern Recognition, 2020 (expected)

Fields: Computer Vision

Beijing, China

Sep. 2017 - Present

Central South University

B.E., Automation & Mechanical Engineering

Overall GPA: 89.52/100, Rank: Top 5%

Changsha, China

Sep. 2013 - Jun. 2017

WORK EXPERIENCE

Megvii Research

• **Research Intern**, Base Detection Team

• Advisor: Dr. Jian Sun and Zeming Li

Beijing, China

Jan. 2019 - Present

Horizon Robotics

• **Research Intern**, AIoT Team

• Advisor: Guan Huang

Beijing, China

Apr. 2018 - Dec. 2018

IBM Research

• **Research Intern**

• Advisor: Dr. Shilei Zhang

Beijing, China

Aug. 2017 - Jan. 2018

PUBLICATIONS

Learning Dynamic Routing for Semantic Segmentation

Yanwei Li, Lin Song, Yukang Chen, Zeming Li, Xiangyu Zhang, Xingang Wang, Jian Sun

Nov. 2019

- Submitted to **CVPR** 2020

Tree Filter V2: Towards More Generic Feature Transform

Lin Song, Yanwei Li, Zhengkai Jiang, Zeming Li, Gang Yu, Hongbin Sun, Jian Sun, Nanning Zheng

Nov. 2019

- Submitted to **CVPR** 2020

Learnable Tree Filter for Structure-preserving Feature Transform

Lin Song, Yanwei Li*, Zeming Li, Gang Yu, Hongbin Sun, Jian Sun, Nanning Zheng* (* denotes equal contribution)

Sep. 2019

- [Accepted](#) by **NeurIPS** 2019 [[Paper](#)] [[Code](#)]

Attention-guided unified network for panoptic segmentation

Yanwei Li, Xinze Chen, Zheng Zhu, Lingxi Xie, Guan Huang, Dalong Du, Xingang Wang

Feb. 2019

- [Accepted](#) by **CVPR** 2019 [[Paper](#)]

Identity-Enhanced Network for Facial Expression Recognition

Yanwei Li, Xingang Wang, Shilei Zhang, Lingxi Xie, Wenqi Wu, Hongyuan Yu, Zheng Zhu

Oct. 2018

- [Accepted](#) by **ACCV** 2018 [[Paper](#)]

State-aware Re-identification Feature for Multi-target Multi-camera Tracking

Peng Li, Jiabin Zhang*, Zheng Zhu*, Yanwei Li, Lu Jiang, Guan Huang*

Feb. 2019

- [Accepted](#) by **CVPR** 2019 Workshop [[Paper](#)]

WORKSHOP & COMPETITION



MicroSoft COCO 2018 Panoptic Challenge

*Yanwei Li**, *Naiyu Gao**, *Chaoru Guo*, *et.al.*

Munich, Germany

(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

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