Tingting Liang

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No.5 Yiheyuan Road, Haidian District, Beijing 100871, P.R.China
https://tingtingliangvs.github.io/

EDUCATION

Peking University

Sept 2018 - Jul. 2023 (expected)

Ph.D., Applied Computer Technology, School of Electronics Engineering and Computing Science

Advisor: Prof. Zhi Tang, Prof. Yongtao Wang

Beijing University of Posts and Telecommunications

Sept 2014 - Jul 2018

B.E., Network Engineering, School of Computer Science

INTERN AND RESEARCH EXPERIENCE

DAMO Academy, Alibaba Group

Jan 2022 - Jun 2022

Research Intern

Mentor: Dr.Bing Wang and Dr. Kaicheng Yu

RESEARCH INTERESTS

I am excited about developing deep models with hand-designed and automated search methods to solve computer vision challenges. Currently, my research focuses on learning 2D and 3D representations of objects and scenes towards improving accuracy and robustness of perception tasks in complex environments.

PUBLICATIONS & PREPRINTS

- 1. BEVFusion: A Simple and Robust LiDAR-Camera Fusion Framework

 Tingting Liang, Hongwei Xie, Kaicheng Yu, Zhongyu Xia, Zhiwei Lin, Yongtao Wang, Bing Wang, Zhi Tang

 Neural Information Processing Systems, NeurIPS 2022. paper, talk, code (☆ 300+), blog
- CBNet: A Composite Backbone Network Architecture for Object Detection
 Tingting Liang, Xiaojie Chu, Yudong Liu, Yongtao Wang, Zhi Tang, Wei Chu, Jingdong Chen, Haibin Ling
 IEEE Transactions on Image Processing, TIP. paper, code (☆ 300+), blog
- 3. OPANAS: One-Shot Path Aggregation Network Architecture Search for Object Detection **Tingting Liang**, Yongtao Wang, Guosheng Hu, Zhi Tang, Haibin Ling *IEEE Conference on Computer Vision and Pattern Recognition*, **CVPR** 2021. paper, talk, code, blog
- 4. CBNet: A Novel Composite Backbone Network Architecture for Object Detection Yudong Liu, Yongtao Wang, Siwei Wang, **Tingting Liang**, Qijie Zhao, Zhi Tang, Haibin Ling Association for the Advancement of Artificial Intelligence, **AAAI** 2020. paper, code
- Pyramidal Region Context Module for Semantic Segmentation
 Tingting Liang, Qijie Zhao, Zhuoying Wang, Kaiyu Shan, Huan Zhang, Yongtao Wang, Zhi Tang
 In Proceedings of the ACM Turing Celebration Conference China ACM TURC' 2019. paper
- APNet: Semantic Segmentation for Pelvic MR Image
 Ting-Ting Liang, Mengyan Sun, Liangcai Gao, Jing-Jing Lu, Satoshi Tsutsui
 Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2018. paper
- 7. Benchmarking the Robustness of LiDAR-Camera Fusion for 3D Object Detection Kaicheng Yu, Tang Tao, Hongwei Xie, Zhiwei Lin, Zhongwei Wu, Zhongyu Xia, **Tingting Liang**, Haiyang Sun, Jiong Deng, Dayang Hao, Yongtao Wang, Xiaodan Liang, Bing Wang Under review. paper, code
- 8. FlowNAS: Neural Architecture Search for Optical Flow Estimation Zhiwei Lin*, **Tingting Liang***, Taihong Xiao*, Yongtao Wang, Zhi Tang, Ming-Hsuan Yang Under review. paper, code

TEACHING EXPERIENCE

SKILLS

Programming: Python (Pytorch)

Languages: Mandarin, English (IELTS: 7)

AWARDS AND SCHOLARSHIPS

Merit Student, Peking University	2021
Outstanding Graduate Student, Beijing	2018
Tang Jun & Sun Chunlan Scholarship, Beijing University of Posts and Telecommunications	2017
First Class Scholarship, Beijing University of Posts and Telecommunications 2015	- 2016
Second Prize, National High School Mathematics & Physics Competition, Sichuan Province	2012

REFEREES

Prof. Haibin Ling, Email: hling@cs.stonybrook.edu

Prof. Ming-Hsuan Yang, Email: myang37@ucmerced.edu

Prof. Zhi Tang, Email: tangzhi@pku.edu.cn