Yongming Rao

Education

Department of Automation, Tsinghua University

PhD student in Computer Vision

Advisor: Prof. Jiwen Lu

Department of Electronic Engineering, Tsinghua University

Beijing, China

Beijing, China

2014-2018

PBC School of Finance, Tsinghua University

Beijing, China

Academic Experience

Minor in Finance

Multimedia Lab, The Chinese University of Hong Kong

Research assistant advised by Prof. Dahua Lin Jul 2017 - Sept 2017

Megvii Research

Research intern advised by Dr. Xiangyu Zhang and Dr. Jian Sun Apr 2017 - Jul 2017

Publications

Peer-Reviewed Conference Publications

- [1] Yongming Rao, Jiwen Lu, and Jie Zhou Spherical Fractal Convolution Neural Networks for Point Cloud Recognition 2018 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019
- [2] Yansong Tang, Dajun Ding, Yongming Rao, Yu Zheng, Danyang Zhang, Lili Zhao, Jiwen Lu, and Jie Zhou COIN: A Large-scale Dataset for Comprehensive Instruction Video Analysis 2018 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019
- [3] Yongming Rao, Dahua Lin, Jiwen Lu, and Jie Zhou Learning Globally Optimized Object Detector via Policy Gradient 2018 IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018 spotlight
- [4] Ji Lin*, **Yongming Rao***, Jiwen Lu, and Jie Zhou **Runtime Neural Pruning**

The Thirty-first Annual Conference on Neural Information Processing Systems (NeurIPS), 2017

- [5] Yongming Rao, Ji Lin, Jiwen Lu, and Jie Zhou Learning Discriminative Aggregation Network for Video-Based Face Recognition 2017 IEEE International Conference on Computer Vision (ICCV), 2017 spotlight
- [6] Yongming Rao, Jiwen Lu, and Jie Zhou Attention-aware Deep Reinforcement Learning for Video Face Recognition 2017 IEEE International Conference on Computer Vision (ICCV), 2017
- [7] Bilong Shen, Ying Zhao, Guoliang Li, Weimin Zheng, Yue Qin, Bo Yuan, and Yongming Rao V-tree: Efficient KNN Search on Moving Objects with Road-Network Constraints 2017 IEEE 33rd International Conference on Data Engineering (ICDE), 2017

Peer-Reviewed Journal Publications

- [8] Yongming Rao, Jiwen Lu, and Jie Zhou Learning Discriminative Aggregation Network for Video-based Face Recognition and Person Re-identification International Journal of Computer Vision (IJCV, IF: 6.07), 2019
- [9] Yongming Rao, Jiwen Lu, Ji Lin, and Jie Zhou Runtime Network Routing for Efficient Image Classification IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI, IF: 17.73), 2019

2015-2018

^{*} indicates equal contribution

Talks

0	Deep Reinforcement Learning for Computer Vision CVPR'2019 Tutorial on Deep Reinforcement Learning for Computer Vision	June 2019
0	Spherical Fractal Convolution Neural Networks for Point Cloud Recognition Invited Presentation at 2019 Beijing University Academic Forum on Artificial Intelligence	March 2019
0	Learning Globally Optimized Object Detector via Policy Gradient CVPR'2018 Spotlight Presentation	June 2018
0	Runtime Neural Pruning Invited Presentation at the 15th China Workshop on Machine Learning and Applications (MLA'2017)	Nov 2017
0	Learning Discriminative Aggregation Network for Video-Based Face Recognition ICCV'2017 Spotlight Presentation	Oct 2017
	Honors and Awards	
F	Honors and Awards	
_	Honors and Awards 1st prize in Beijing University Academic Forum on Artificial Intelligence	2019
0		2019 2018
0	1st prize in Beijing University Academic Forum on Artificial Intelligence	
0 0	1st prize in Beijing University Academic Forum on Artificial Intelligence 1st place in Momenta Lane Detection Challenge	2018
0 0 0	1st prize in Beijing University Academic Forum on Artificial Intelligence 1st place in Momenta Lane Detection Challenge 2017 Sensetime Undergraduate Scholarship	2018 2017

Academic Services

Co-Organizer

Tutorial on Deep Reinforcement Learning for Computer Vision at CVPR 2019.

Journal Reviewer

- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Cybernetics

Conference Reviewer

- o IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2018, 2019)
- o International Conference on Machine Learning (ICML 2019)
- o International Conference on Computer Vision (ICCV 2019)
- Neural Information Processing Systems (NeurIPS 2019)
- o IEEE International Conference on Multimedia and Expo (ICME 2019)
- o Asian Conference on Computer Vision (ACCV 2018)
- o International Conference on Pattern Recognition (ICPR 2018)
- o IEEE International Conference on Image Processing (ICIP 2018, 2019)