Yongming Rao

Education

Department of Automation, Tsinghua UniversityBeijing, ChinaPhD student in Computer Vision2018-presentAdvisor: Prof. Jiwen LuBeijing, ChinaDepartment of Electronic Engineering, Tsinghua UniversityBeijing, ChinaB.E. in Electronic Engineering2014-2018

PBC School of Finance, Tsinghua University

Minor in Finance

2015-2018

Academic Experience

Multimedia Lab, The Chinese University of Hong Kong Research assistant advised by Prof. Dahua Lin Megvii Research Research intern advised by Dr. Xiangyu Zhang and Dr. Jian Sun Apr 2017 - Jul 2017

Publications

Manuscripts under Review

- [1] Yongming Rao, Ji Lin, Jiwen Lu, and Jie Zhou Dynamic Progressive Pruning for Efficient Video Classification in Submission, 2019
- [2] Yongming Rao, Benlin Liu, Shaohui Liu, Jiwen Lu, and Jie Zhou Learning Local Deformations for Skeleton-based Human Analysis in Submission, 2019
- [3] Benlin Liu*, Yongming Rao*, Shaohui Liu, Jiwen Lu, and Jie Zhou Rethinking Adversarial Feature Generation for Zero-Shot Learning in Submission, 2019
- [4] Cheng Ma, **Yongming Rao**, Zhenyu Jiang, Jiwen Lu, and Jie Zhou **Improving Image Super-Resolution via Multi-Scale Discrimination** in Submission, 2019
- [5] Yansong Tang, Yi Wei, Xumin Yu, Yongming Rao, Jiwen Lu, and Jie Zhou Graph Interaction Networks for Relation Transfer in Submission, 2019

Peer-Reviewed Conference Publications

- [6] 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
- [7] 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
- [8] 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
- [9] Ji Lin*, Yongming Rao*, Jiwen Lu, and Jie Zhou Runtime Neural Pruning The Thirty-first Annual Conference on Neural Information Processing Systems (NeurIPS), 2017

^{*} indicates equal contribution

- [10] 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
- [11] 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
- [12] 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

[13] 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: 11.54), 2018

[14] 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: 9.45), 2018

Talks

Learning Globally Optimized Object Detector via Policy Gradient CVPR'2018 Spotlight Presentation Runtime Neural Pruning Invited Presentation at The 15th China Workshop on Machine Learning and Applications (MLA'2017)	June 2018 Nov 2017
Honors and Awards	
o 1st place in Momenta Lane Detection Challenge	2018
o 2017 Sensetime Undergraduate Scholarship	2017
o 1st place in 17th Electronic Design Contest of Tsinghua University	2016

Academic Services

Co-Organizer

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

Journal Reviewer

International Journal of Computer Vision (IJCV)

Conference Reviewer

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