

Ziwei Wang

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Education

Department of Automation, Tsinghua University PhD student in Computer Vision Advisor: Prof. Jiwen Lu	Beijing, China 2018-present
Department of Physics, Tsinghua University B.E. in Maths and Physics	Beijing, China 2014-2018
School of Economics and Management, Tsinghua University B.E. in Finance	Beijing, China 2015-2018

Publications

Peer-Reviewed Conference Publications

- [1] **Ziwei Wang**, Han Xiao, Jiwen Lu, and Jie Zhou
Generalizable Mixed-Precision Quantization via Attribution Rank Preservation
IEEE International Conference on Computer Vision (ICCV), 2021
- [2] **Ziwei Wang**, Yunsong Wang, Ziyi Wu, Jiwen Lu, and Jie Zhou
Instance Similarity Learning for Unsupervised Feature Representation
IEEE International Conference on Computer Vision (ICCV), 2021
- [3] **Ziwei Wang**, Quan Zheng, Jiwen Lu, and Jie Zhou
Deep Hashing with Active Pairwise Supervision
16th European Conference on Computer Vision (ECCV), 2020
- [4] **Ziwei Wang**, Ziyi Wu, Jiwen Lu, and Jie Zhou
BiDet: An Efficient Binarized Object Detector
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- [5] **Ziwei Wang**, Jiwen Lu, Chenxin Tao and Jie Zhou
Learning Channel-wise Interactions for Binary Convolutional Neural Networks
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2019
- [6] Yueqi Duan, **Ziwei Wang**, Jiwen Lu, Xudong Lin and Jie Zhou
GraphBit: Bitwise Interaction Mining via Deep Reinforcement Learning
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2018
- [7] Yueqi Duan, Jiwen Lu, **Ziwei Wang**, Jianjiang Feng and Jie Zhou
Learning Deep Binary Descriptor with Multi-Quantization
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2017

Peer-Reviewed Journal Publications

- [8] **Ziwei Wang**, Jiwen Lu, Ziyi Wu and Jie Zhou
Learning Efficient Binarized Object Detectors with Information Compression
IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI, IF: 16.39), 2021, accepted
- [9] **Ziwei Wang**, Jiwen Lu, and Jie Zhou
Learning Channel-wise Interactions for Binary Convolutional Neural Networks
IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI, IF: 16.39), 2020, accepted
- [10] Yueqi Duan, Jiwen Lu, **Ziwei Wang**, Jianjiang Feng and Jie Zhou
Learning Deep Binary Descriptor with Multi-Quantization
IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI, IF: 16.39), 2019

Honors and Awards

- National Scholarship 2020
- Chi-Sun Yeh Scholarship 2018
- Qualcomm Scholarship 2016

Academic Services

Journal Reviewer

- IEEE Transactions on Image Processing
- IEEE Transactions on Circuits and Systems for Video Technology
- Pattern Recognition Letters
- Journal of Visual Communication and Image Representation

Conference Reviewer

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2020, 2021, 2022)
- Neural Information Processing Systems (NeurIPS 2020, 2021)
- IEEE International Conference on Computer Vision (ICCV 2021)
- International Conference on Machine Learning (ICML 2021)
- International Conference on Representation Learning (ICLR 2021)
- IEEE International Conference on Multimedia & Expo (ICME 2019, 2020)
- IEEE Winter Conference on Applications of Computer Vision (WACV 2020, 2021)
- Asian Conference on Computer Vision (ACCV 2020)
- International Conference on Pattern Recognition (ICPR 2018, 2020)
- IEEE International Conference on Image Processing (ICIP 2018, 2019)