Wenzhao Zheng

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Education

Department of Automation, Tsinghua University

PhD student in Computer Vision

Advisor: Prof. Jie Zhou and Prof. Jiwen Lu

Department of Physics, Tsinghua University

B.S. in Maths and Physics

Beijing, China Sep 2018 – Present

Beijing, China

Sep 2014 – June 2018

Research Interests

Representation Learning, Autonomous Driving, Explainable AI

Publications

Peer-Reviewed Conference Publications

- [1] Yuanhui Huang*, Wenzhao Zheng*, Yunpeng Zhang, Jie Zhou, and Jiwen Lu Tri-Perspective View for Vision-Based 3D Semantic Occupancy Prediction IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- [2] Chengkun Wang*, Wenzhao Zheng*, Junlong Li, Jie Zhou, and Jiwen Lu Deep Factorized Metric Learning IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- [3] Borui Zhang, **Wenzhao Zheng**, Jie Zhou, and Jiwen Lu **Bort: Towards Explainable Neural Networks with Bounded Orthogonal Constraint**International Conference on Learning Representations (**ICLR**), 2023
- [4] Yunpeng Zhang, **Wenzhao Zheng**, Zheng Zhu, Guan Huang, Jie Zhou, and Jiwen Lu **A Simple Baseline for Multi-Camera 3D Object Detection**Thirty-Seventh AAAI Conference on Artificial Intelligence (**AAAI**), 2023
- [5] Yi Wei*, Linqing Zhao*, **Wenzhao Zheng**, Zheng Zhu, Yonming Rao, Guan Huang, Jiwen Lu, and Jie Zhou
 - SurroundDepth: Entangling Surrounding Views for Self-Supervised Multi-Camera Depth Estimation
 - Conference on Robot Learning (CoRL), 2022
- [6] Wenzhao Zheng, Yuanhui Huang, Borui Zhang, Jie Zhou, and Jiwen Lu Dynamic Metric Learning with Cross-Level Concept Distillation 17th European Conference on Computer Vision (ECCV), 2022
- [7] Yunpeng Zhang, Wenzhao Zheng, Zheng Zhu, Guan Huang, Dalong Du, Jie Zhou, and Jiwen Lu Dimension Embeddings for Monocular 3D Object Detection IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022
- [8] Borui Zhang, Wenzhao Zheng, Jie Zhou, and Jiwen Lu Attributable visual similarity learning IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022

^{*} indicates equal contribution

[9]	Wenzhao Zheng*, Borui Zhang*, Jiwen Lu, and Jie Zhou Deep Relational Metric Learning IEEE International Conference on Computer Vision (ICCV), 2021	
[10]	Wenzhao Zheng, Chengkun Wang, Jiwen Lu, and Jie Zhou Deep Compositional Metric Learning IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021	
[11]	Wenzhao Zheng, Jie Zhou, and Jiwen Lu Structural Deep Metric Learning for Room Layout Estimation 16th European Conference on Computer Vision (ECCV), 2020	
[12]	Wenzhao Zheng, Jiwen Lu, and Jie Zhou Deep Metric Learning via Adaptive Learnable Assessment IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020	
[13]	Wenzhao Zheng, Zhaodong Chen, Jiwen Lu, and Jie Zhou Hardness-Aware Deep Metric Learning IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2019, Oratation	l Presen-
[14]	Yueqi Duan, Wenzhao Zheng , Xundong Lin, Jiwen Lu, and Jie Zhou Deep Adversarial Metric Learning IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2018, Spotl sentation	ight Pre-
Pec	er-Reviewed Journal Publications	
[15]	Wenzhao Zheng, Jiwen Lu, and Jie Zhou Deep Metric Learning with Adaptively Composite Dynamic Constraints IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2023	
[16]	Wenzhao Zheng, Jiwen Lu, and Jie Zhou Hardness-Aware Deep Metric Learning IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2021	
[17]	Yueqi Duan, Jiwen Lu, Wenzhao Zheng , and Jie Zhou Deep Adversarial Metric Learning IEEE Transactions on Image Processing (T-IP), 2020	
Ho	onors and Awards	
ο Т	Tsinghua Xuancheng Scholarship	2022
o (Chinese National Scholarship	2021
0 (CVPR 2021 Outstanding Reviewer	2021
о Т	Tsinghua Changtong Scholarship	2020
o C	Chinese National Scholarship	2019
о Т	Tsinghua Tung OOCL Scholarship	2017
о Т	Tsinghua German Scholarship	2016

Academic Services

Conference Senior PC Member

o International Joint Conference on Artificial Intelligence (IJCAI), 2021

Conference Reviewer / PC Member

- o IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2019-2022
- o International Conference on Computer Vision (ICML), 2019,2021
- o European Conference on Computer Vision (ECCV), 2020,2022
- o International Conference on Learning Representations (ICLR), 2023
- o International Joint Conference on Artificial Intelligence (IJCAI), 2020,2022
- o IEEE Winter Conference on Applications of Computer Vision (WACV), 2020-2022
- o IEEE International Conference on Multimedia and Expo (ICME), 2019-2022

Journal Reviewer

- o IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)
- o IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)
- IEEE Transactions on Image Processing (T-IP)
- o IEEE Transactions on Biometrics, Identity and Behavior (T-BIOM)
- ACM Transactions on Intelligent Systems and Technology (TIST)
- Pattern Recognition (PR)