

CHAOQIANG ZHAO

Visiting Ph.D Student

Department of Computer Science and Engineering

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EDUCATION

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- East China University of Science and Technology**, Automation, *Undergraduate student*
2014.09 - 2018.06
- East China University of Science and Technology**, Control Science and Engineering, *Ph.D student*
2018.09 - 2023.06
- University of Bologna**, Computer Science and Engineering, *Visiting Ph.D student*
2021.11 - 2022.11

RESEARCH INTERESTS

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- 3D perception
 - Monocular depth estimation
 - SLAM & Visual Odometry

RESEARCH COLLABORATOR

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- Prof. Yang Tang (ECUST)
 - Prof. Stefano Mattoccia (University of Bologna)
 - Dr Matteo Poggi, Assistant professor (University of Bologna)
 - Dr Fabio Tosi, Postdoc researcher (University of Bologna)
 - Qiyu Sun (ECUST)

PUBLICATIONS

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- PUBLICATIONS** 2019 - 2022
- **Chaoqiang Zhao**, Youmin Zhang, Matteo Poggi, Fabio Tosi, Xianda Guo, Zheng Zhu, Guan Huang, Yang Tang*, Stefano Mattoccia, MonoViT: Self-Supervised Monocular Depth Estimation with a Vision Transformer, (10th International Conference on 3D Vision), 3DV 2022, Prague, Czechia, 12-15 September 2022.
 - **Chaoqiang Zhao**, Gary G Yen, Qiyu Sun, Chongzhen Zhang, Yang Tang. Masked GAN for unsupervised depth and pose prediction with scale consistency[J]. IEEE Transactions on Neural Networks and Learning Systems, 2020.
 - **Yang Tang**, **Chaoqiang Zhao**, Jianrui Wang, Chongzhen Zhang, Qiyu Sun, Wei Xing Zheng, Wenli Du, Feng Qian and Jürgen Kurths, Perception and Navigation in Autonomous Systems in the Era of Learning: A Survey[J]. IEEE Transactions on Neural Networks and Learning Systems, 2022.
 - **Chaoqiang Zhao**, Yang Tang, Qiyu Sun and Athanasios V Vasilakos. Deep direct visual odometry[J]. IEEE Transactions on Intelligent Transportation Systems, 2021.
 - **Chaoqiang Zhao**, Yang Tang, Qiyu Sun. Unsupervised Monocular Depth Estimation in Highly Complex Environments[J]. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022.
 - **Chaoqiang Zhao**, Qiyu Sun, Chongzhen Zhang, Yang Tang, and Feng Qian. Monocular depth estimation based on deep learning: An overview[J]. Science China Technological Sciences, 2020. (IF=3.903, SCI, JCR: Q2, 中科院: 2区)
 - **Chaoqiang Zhao**, Matteo Poggi, Fabio Tosi, Xianda Guo, Zheng Zhu, Guan Huang, Yang Tang, Stefano Mattoccia. MonoViT: Self-Supervised Monocular Depth Estimation with a Vision Transformer[C]. International Conference on 3D Vision, 2022. (CCF: C)
 - Qiyu Sun, Yang Tang, Chongzhen Zhang, **Chaoqiang Zhao**, Feng Qian and Jürgen Kurths. Unsupervised estimation of monocular depth and VO in dynamic environments via hybrid masks. IEEE Transactions on

Neural Networks and Learning Systems, 2021.

- Chongzhen Zhang, Yang Tang, **Chaoqiang Zhao**, Qiyu Sun, Zhencheng Ye and Jürgen Kurths. Multitask gans for semantic segmentation and depth completion with cycle consistency. IEEE Transactions on Neural Networks and Learning Systems, 2021.
- Chongzhen Zhang, Jianrui Wang, Gary G Yen, **Chaoqiang Zhao**, Qiyu Sun, Yang Tang, Feng Qian and Jürgen Kurths.. When autonomous systems meet accuracy and transferability through AI: A survey, Patterns, 2020.
- Qiyu Sun, Yang Tang, and **Chaoqiang Zhao**. Cycle-SfM: Joint self-supervised learning of depth and camera motion from monocular image sequences. Chaos: An Interdisciplinary Journal of Nonlinear Science, 2019.