



Youmin Zhang

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"Everything happens the best."

Education

University of Bologna

PH.D. IN COMPUTER SCIENCE AND TECHNOLOGY

- Topics including: depth sensing, SLAM, stereo matching, depth from a single image
- Advisor: Prof.Stefano Mattoccia and Prof.Matteo Poggi

Bologna, Italy

Nov. 2020 - Now

Beihang University

M.S. IN COMPUTER SCIENCE AND TECHNOLOGY

- Thesis: Research and Implementations of Real-time and High Accuracy Binocular Stereo Matching Algorithms
- Advisor: Xiao Bai

Beijing, China

Sep. 2017 - Jun. 2020

Dalian Maritime University

B.S. IN COMMUNICATION ENGINEERING

- GPA: 4.05/5.0
- Ranking: 4/128

Dalian, China

Sep. 2013 - Jul. 2017

Publications

CONFERENCE

1. **Zhang, Youmin** and Poggi, Matteo and Mattoccia, Stefano. **TemporalStereo: Efficient Spatial-Temporal Stereo Matching Network**. arXiv preprint arXiv:2211.13755, 2022.
2. Spencer, Jaime and Qian, C. Stella and Russell, Chris and Hadfield, Simon and Graf, Erich and Adams, Wendy and Schofield, Andrew J. and Elder, James and Bowden, Richard and Cong, Heng and Mattoccia, Stefano and Poggi, Matteo and Suri, Zeeshan Khan and Tang, Yang and Tosi, Fabio and Wang, Hao and **Zhang, Youmin** and Zhang, Yusheng and Zhao, Chaoqiang. **The Monocular Depth Estimation Challenge**. WACV Workshops, 2023.
3. 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**. International Conference on 3D Vision (3DV), 2022.
4. Xiaoli Huang, Tongge Xu, Lvan Jiao, Yueran Zu, **Youmin Zhang**. **Adaptive Beam Search Decoding for Discrete Keyphrase Generation**. In proc. of 35th AAAI Conference on Artificial Intelligence (AAAI), 2021.
5. Suihanjin Yu, **Youmin Zhang**, Chen Wang, Xiao Bai, Liang Zhang, Edwin R Hancock. **HMFlow: Hybrid Matching Optical Flow Network for Small and Fast-Moving Objects**. In proc. of 25th International Conference on Pattern Recognition (ICPR), 2021.
6. **Youmin Zhang***, Yimin Chen*, Xiao Bai, Suihanjin Yu, Kun Yu, Zhiwei Li, and Kuiyuan Yang. **Adaptive Unimodal Cost Volume Filtering for Deep Stereo Matching**. In proc. of 34th AAAI Conference on Artificial Intelligence (AAAI), 2020.

Work Experience

Jiangxi Research Institute of Beihang University

COMPUTER VISION RESEARCHER

- 3D modelling and Visual SLAM, Deep learning for computer vision, Scene Reconstruction and Understanding.

Jiangxi, China

Sept. 2020 - April. 2021

Y-tech, Kuaishou Technology

INTERNSHIP

- Monocular Depth Estimation, Hybrid Augmented Reality.

Beijing, China

Mar. 2020 - Sept. 2020

Deep Motion

INTERNSHIP

- Studying stereo matching related problems for Automatic Driving.

Beijing, China

Nov. 2018 - Dec. 2019

Honors & Awards

INTERNATIONAL

2016 **Silver Medal**, The ACM-ICPC Asia Regional Programming Contest

Changchun, China

DOMESTIC

2018-2019 **National Scholarship**, For postgraduates

China

2013-2017 **National Motivational Scholarship**, For 4 consecutive years

China

2015 **First Prize**, The 2015 ACM-ICPC China Northeast Invitational Programming Contests

China

2015 **First Prize**, The 2015 Liaoning Province ACM-ICPC Contest

China