

Ziming Liu, Master of Computer Science

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Education

- Sep 2018 – Jul 2020 **Master of Software Engineering,**
BIT - Beijing Institute of Technology
Tongyou Scholarship (About 13 at BIT)
Graduate with "**Outstanding Graduates**" 7%,
Admission exam ranking: 11/161.
Thesis (Score: 89.2): *Action Recognition with comprehensive context information.*
- Sep 2014 – Jul 2018 **Bachelor of Engineering,**
Changsha University of Science & Technology
First Prize scholarship 2%
Graduate with "**Outstanding Thesis Award**" (1%)
Thesis (Score: 93.0): *Multi-PCA fault detection system with prior knowledge of the building equipment.*
- Aug 2019 **Summer School on Innovation**
Polytechnic University of Madrid & BIT.
No. 1 awarded project.

Employment History

- July, 2020 – Oct, 2020 **Computer vision Algorithm Research. Meituan Inc.** Short-video understanding group, Visual Intelligence Center, AI platform, (Beijing, China)
- July, 2016 – August, 2016 **Summer Intern. Green Hunan (Non-Government Organization)** Water Protection Group, (Changsha & Yueyang, China)

Research Publications

Conference Proceedings

- 1 **Liu, Ziming**, Malis, E., & Martinet, P. (2022). A new dense hybrid stereo visual odometry approach, In *Proceedings of the international conference on intelligent robots and systems (IROS)*.

- 2 **Liu, Ziming**, Gao, G., Sun, L., & Fang, Z. (2021). Hrdnet: High-resolution detection network for small objects, In *Proceedings of the international conference on multimedia and expo (ICME Oral Presentation)*. IEEE.
- 3 **Liu, Ziming**, Gao, G., Sun, L., & Fang, L. (2020). Ipg-net: Image pyramid guidance network for small object detection, In *Proceedings of the conference on computer vision and pattern recognition (CVPR) workshops*. IEEE.
- 4 Du, D., Zhu, P., Wen, L., Bian, X., Lin, H., Hu, Q., Peng, & Ziming, L. (2019). Visdrone-det2019: The vision meets drone object detection in image challenge results, In *Proceedings of the international conference on computer vision (ICCV) workshops*. IEEE.
- 5 Zhu, P., Du, D., Wen, L., Bian, X., Ling, H., Hu, Q., Peng, T., Zheng, J., Wang, X., Zhang, Y., Bo, L., Shi, H., Zhu, R., Dong, B., Reddy Pailla, D., Ni, F., Gao, G., Liu, G., Xiong, H., ... Liu, Z. (2019). Visdrone-vid2019: The vision meets drone object detection in video challenge results, In *Proceedings of the international conference on computer vision (ICCV) workshops*. IEEE.
- 6 **Liu, Ziming**, Gao, G., Qin, A. K., Wu, T., & Liu, C. H. (2019). Action recognition with bootstrapping based long-range temporal context attention, In *Proceedings of the 27th acm international conference on multimedia (ACM MultiMedia)*. ACM.

Journal Articles

- 1 **Liu, Ziming**, Li, J., Gao, G., & Qin, A. K. (2020). Temporal memory network towards real-time video understanding. *IEEE Access*, 8, 223837–223847.