Yinlong Liu 刘银龙 Postdoctoral Scholar E-mail:YinlongLiu@um.edu.mo

Education

•	Doctor of Natural Sciences	
	Technische Universität München, Germany	2018.10 - 2022.07
•	Master of Biomedical Engineering	
	Fudan University, China	2015.09 - 2018.07
•	Bachelor of Automation	
	Harbin Institute of Technology, China	2011.09 - 2015.06

Publications

- Liu, Yinlong, Zhijian Song, and Manning Wang. "A new robust markerless method for automatic image-to-patient registration in image-guided neurosurgery system." Computer Assisted Surgery 22, (2017): 319-325.
- Liu, Yinlong, Chen Wang, Zhijian Song, and Manning Wang. "Efficient global point cloud registration by matching rotation invariant features through translation search." In Proceedings of the European Conference on Computer Vision (ECCV), pp. 448-463. 2018.
- Liu, Yinlong, Yuan Dong, Zhijian Song, and Manning Wang. "2D-3D Point Set Registration Based on Global Rotation Search." IEEE Transactions on Image Processing 28, no. 5 (2019): 2599-2613.
- Liu, Yinlong, Xuechen Li, Manning Wang, Alois Knoll, Guang Chen, and Zhijian Song. "A novel method for the absolute pose problem with pairwise constraints." Remote Sensing 11, no. 24 (2019): 3007.
- Liu, Yinlong, Guang Chen, and Alois Knoll. "Globally optimal camera orientation estimation from line correspondences by bnb algorithm." IEEE Robotics and Automation Letters 6, no. 1 (2020): 215-222.
- Liu, Yinlong, Guang Chen, Rongqi Gu, and Alois Knoll. "Globally Optimal Consensus Maximization for Relative Pose Estimation With Known Gravity Direction." IEEE Robotics and Automation Letters 6, no. 3 (2021): 5905-5912.
- Liu, Yinlong, Guang Chen, and Alois Knoll. "Globally Optimal Vertical Direction Estimation in Atlanta World." IEEE transactions on pattern analysis and machine intelligence 44, no. 4 (2022): 1949-1962.

• Liu, Yinlong, Yiru Wang, Manning Wang, Guang Chen, Alois Knoll, and Zhijian Song. "Globally optimal linear model fitting with unit-norm constraint." International Journal of Computer Vision 130, no. 4 (2022): 933-946.

Research Interests

• Geometry Vision, Computer Assisted Surgery, Medical Robotics

Projects

• N/A

Selected Awards & Honors

• N/A

Academic Services

• N/A