Liangjing Shao

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🎓 Education

Fudan University, Shanghai, China   2022 – 2025(expected)
Academy for Engineering & Technology
Shanghai Key Laboratory of Medical Image Computing and Computer Assisted Intervention
Master student in Biomedical Engineering
Research Interest: 3D Vision, Computer Assisted Intervention, Embodied AI
GPA: 3.58/4.00

Tongji University, Shanghai, China   2018 – 2022
College of Mechanical Engineering
B.Eng. in Mechanical Engineering
GPA: 4.56/5.00 (TOP 6%)

📄 Selected Publications

1. **Liangjing Shao**, Benshuang Chen, Shuting Zhao, Xinrong Chen. EndoMODE: A Multi-modal Visual Feature-based Ego-motion Estimation Framework for Monocular Odometry and Depth Estimation in Various Endoscopic Scenes. *Submitted* to *IEEE Transactions on Industrial Informatics* (Revised). (SCI, JCR Q1)

2. **Liangjing Shao**, Benshuang Chen, Xinrong Chen. REMOTE: Real-time Ego-motion Tracking for Various Endoscopes via Multimodal Visual Feature Learning . *Accepted* by *IEEE International Conference on Robotics & Automation (ICRA), 2025*.

3. **Liangjing Shao**, Benshuang Chen, Shuting Zhao, Xinrong Chen. NEPose: A Novel In-vivo Dataset for Vision-based Nasal Endoscope Pose Estimation. *Submitted* to *Pattern Recognition* (Under Review). (SCI, JCR Q1)

4. Wei Tang, **Liangjing Shao**, Xinrong Chen. Estimation of Hand Pressure and Pose from RGB Images Based on Cross-modal Cues. *Submitted* to *IEEE Sensors Journal* (Accepted). (SCI, JCR Q1)

5. **Liangjing Shao**, Benshuang Chen, Xinrong Chen. NETrack: A Lightweight Attention-based Network for Real-time Pose Tracking of Nasal Endoscope Based on Endoscopic Image. *Accepted* by *the 21st Pacific Rim International Conference on Artificial Intelligence (PRICAI 2024)*.

6. **Liangjing Shao**, Benshuang Chen, Ziqun Zhang, Xinrong Chen. 3-D Clothed Human Model Reconstruction Based on Single-View In-the-Wild Image Data. *IEEE Sensors Journal*, vol. 24, no. 15, pp. 24178-24188 (2024), doi: 10.1109/JSEN.2024.3411042.2 (SCI, JCR Q1)

7. **Liangjing Shao**, Benshuang Chen, Xinrong Chen. 3D Clothed Human Reconstruction from One In-the-wild RGB Image. *2024 IEEE International Conference on Image Processing (ICIP)*. IEEE, 2024: 3561-3567.

8. **Liangjing Shao**, Benshuang Chen, Ziqun Zhang, Zhen Zhang, Xinrong Chen. Artificial intelligence generated content (AIGC) in medicine: A narrative review. *Mathematical Biosciences and Engineering*, vol. 21, no. 01, pp. 1672-1711 (2024), doi: 10.3934/mbe.2024073.

9. **Liangjing Shao**, Wei Tang, Ziqun Zhang, Xinrong Chen. Medical Metaverse: Technologies, Applications, Challenges and Future. *Journal of Mechanics in Medicine and Biology*, vol. 23, no. 02, 2350028 (2023). (SCI)

🏆 Honors and Awards

Outstanding Graduate of Shanghai, by Shanghai Municipal Education Commission   2022
The 3rd Prize, National College Student Curricular Academic Science and Technology Works Competition   2022
The 1st Prize of Scholarship, by Tongji University ($\times 2$)   2020, 2021
The 2nd Prize, Chinese College Students Mathematical Contest (non-math majors)   2020

👤 Services

- **Reviewer** of *ACM Conference on Multimedia (ACM MM) 2023*.
- **Reviewer** of *ACM Conference on Multimedia (ACM MM) 2024*.
- **Reviewer** of *IEEE Transactions on Instrumentation and Measurements (TIM) 2024*.