Xianliang Li

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Shenzhen, China

Research interests

Deep Learning Theory, Optimization

Education

2022 – 2025 **University of Chinese Academy of Sciences**
M.Eng. in Computer Technology

2018 – 2022 **Sun Yat-sen University**
B.S. in Physics

Publications

** - equal contribution, † - corresponding author.*

2025 **Time-of-Arrival Simultaneous Sensor and Target Localization with Dynamic Optimal Sensor Placements**
Xianliang Li, Sheng Xu†, K. C. Ho.
IEEE Transactions on Aerospace and Electronic Systems.

2025 **AOA Sensor Placement for Anchor-Assisted Target Localization in GNSS-Denied Environment: Formulation, Bounds and Optimization**
Sheng Xu, Linlong Wu, **Xianliang Li**, Xinyu Wu†, Tiantian Xu†.
IEEE Transactions on Mobile Computing.

2025 **On the Performance Analysis of Momentum Method: A Frequency Domain Perspective**
Xianliang Li*, Jun Luo*, Zhiwei Zheng*, Hanxiao Wang, Li Luo, Lingkun Wen, Linlong Wu, Sheng Xu†.
International Conference on Learning Representations (ICLR).

2024 **Systematical Sensor Path Optimization Solutions for AOA Target Localization Accuracy Improvement with Theoretical Analysis**
Sheng Xu, Bing Zhu, **Xianliang Li**, Xinyu Wu, Tiantian Xu†.
IEEE Transactions on Vehicular Technology.

2024 **3D Source Tracking Using a Position-Unknown AOA Sensor with Measurement Drift and UAV Moving Direction Optimization**
Rongrong Xu, Sheng Xu†, Kaimin Cao, **Xianliang Li**, Jialiang Wang, Wujing Cao.
IEEE International Conference on Real-time Computing and Robotics.

Experience

September 2023 – June 2025 **Shenzhen Institutes of Advanced Technology,** Research Student
Mentors: Professor Sheng Xu.
• Acted as the team leader and studied the optimizer of deep learning.
• Studied sensor localization and estimation under Prof. Sheng Xu.

2019 – 2020 **Cantonese Association of Sun Yat-sen University,** President
• Organized Cantonese cultural activities.

Technical skills

Coding & Software
Familiar: Python, MATLAB, LaTeX, PyTorch, Git. Basic: C++.

Languages
Mandarin: Native. Cantonese: Native. English: Competent (IELTS: 6.5).

Presentation
Presented research at machine learning conference: ICLR 2025.