

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 **Shenzhen Institutes of Advanced Technology**, Research Student
– June 2025 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

Cantonese: Native. Mandarin: Native. English: Competent.

Presentation

Presented research at machine learning conference: ICLR 2025.