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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 (Minor revision), 2025.

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), 2025.

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.

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, 2024.