Senlin Xia

🏛 University of Electronic Science and Technology of China
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🌐 Homepage G Google Scholar

Education

University of Electronic Science and Technology of China *September 2021 – June 2024*
School of Information and Communication Engineering, Master in Science
Major: Information and Communication Engineering
Advisor: Dr. Guolong Cui

Lanzhou University *September 2017 – June 2021*
School of Information Science & Engineering, Bachelor in Science
Major: Electronic Information Science and Technology
Advisor: Dr. Kun Zhan
Grade-Point-Average: 3.88/5

Research Experience

Research Assistant *2021 – Present*
Radar Complex Environment Sensing Lab, UESTC, Chengdu, China

- with Dr. Guolong Cui
- Target detection in sea clutter; target detection and tracking with mm-wave radar; contrastive learning; weakly supervised learning.

Research Assistant *2019 – 2021*
Deep Learning Lab, LZU, Lanzhou, China

- with Dr. Kun Zhan
- Medical image segmentation; image classification.

Team Member *2017 – 2019*
Robotics Competition Team, LZU, Lanzhou, China

- with classmates
- Embedded system development; control the smart car.

Publications

Senlin Xia, Yukai Kong, Kui Xiong, and Guolong Cui, "Target detection in sea clutter via contrastive learning," *IEEE Transactions on Instrumentation and Measurement*, 2023. [paper] [code]

Senlin Xia, Kui Xiong, Tao Fan, and Guolong Cui, "Radar target detection in nonhomogeneous sea clutter via weakly supervised learning," *IEEE Geoscience and Remote Sensing Letters*, 2023. (Minor revision) [code]

Senlin Xia, Yutao Xiang, Shisheng Guo, and Guolong Cui, "A radar target tracking algorithm based on learning displacement," *IEEE Geoscience and Remote Sensing Letters*, 2023. (Under review) [code]

Yukai Kong, **Senlin Xia**, Luxin Dong, Xianxiang Yu, and Guolong Cui, "Compound jamming recognition via contrastive learning for distributed MIMO radars," *IEEE Transactions on Vehicular Technology*, 2023. (Under review)

Skills

Languages Python ≫ C\C++ ≈ Matlab
Frameworks Pytorch

Awards

First prize National Undergraduate Engineering Training Integration Ability Competition *2019*