Special Issue

Advances in Radar Imaging Processing and Target Detection

Message from the Guest Editor

Modern radar imaging processing leverages advanced signal processing techniques, machine learning, and cutting-edge hardware to achieve unprecedented levels of accuracy and resolution. Innovations such as Synthetic Aperture Radar (SAR), Multiple Input Multiple Output (MIMO) technology, and cognitive radar systems have expanded radar's capabilities, enabling high-resolution imaging, real-time target tracking, and object classification, even in challenging environments. In the era of the rapid development of artificial intelligence, the aim of the advances in radar imaging processing and target detection Special Issue is to enrich radar remote sensing image processing techniques and radar target detection technologies, leveraging multi-source and multi-modal complementary features to gain a deeper understanding of complex geographical features and human phenomena. The suggested themes of the Special Issue include but are not limited to the following:

- Image Denoising;
- Image Super-resolution and Fusion;
- Multi-Modality Image Fusion;
- Image Classification;
- Target Detection;
- Anomaly Detection.

The type of articles submitted should be academic journal papers.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2025)

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Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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