

Special Issue

Advanced Spaceborne SAR Processing Techniques for Target Detection

Message from the Guest Editors

This special Issue aims at representing the latest advances in spaceborne Synthetic Aperture Radar (SAR) processing techniques with a primary focus on enhancing target detection capabilities. This Special Issue brings together cutting-edge research and methodologies aimed at improving the awareness capability provided by spaceborne SAR sensors in both land and maritime domains. Contributions explore novel processing techniques to mitigate challenging aspects of SAR, such as speckle noise, low contrast, and complex background interference, to enhance the detection of man-made targets, encompassing aspects such as image formation, autofocus, ambiguity detection and suppression, waveform design for enhanced target detection, detection-before-focusing, machine learning approaches, and more. The interdisciplinary nature of the Special Issue encourages collaboration between experts in radar technology, signal processing, and artificial intelligence. Ultimately, this collection of research articles contributes to the advancement of SAR technology, addressing key challenges and opening new avenues for effective target detection in complex environments.

Guest Editors

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Message from the Editor-in-Chief

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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