Special Issue

Recent Advances in Synthetic Aperture Radar Imaging and Data Processing

Message from the Guest Editor

Synthetic Aperture Radar (SAR) is a pivotal remote sensing technology, providing day-and-night, all-weather imaging capabilities essential for continuous Earth observation. It plays a critical role in diverse fields including disaster monitoring, deforestation tracking, glacier dynamics, urban mapping, and defence and security. Recent years have witnessed transformative advances driven by new satellite constellations, innovative imaging modes, and breakthroughs in data processing algorithms. This rapid evolution underscores the need to consolidate cutting-edge research, address emerging challenges, and explore the expanding frontiers of SAR applications. This special issue aims to collect high-quality original research and comprehensive review articles that showcase the latest developments in SAR system design, image formation techniques, and advanced data processing methodologies. It seeks to foster discussion on integrating novel algorithms—particularly from artificial intelligence and deep learning—with traditional SAR techniques to enhance remote sensing information extraction and interpretation.

Guest Editor

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Deadline for manuscript submissions

15 September 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/273771

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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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