Special Issue

SAR Images Processing and Analysis (3rd Edition)

Message from the Guest Editors

Synthetic Aperture Radar (SAR) is an indispensable active remote sensing tech with all-day, all-weather Earth observation capabilities, playing a pivotal role in military and civilian fields like target reconnaissance, environmental monitoring and geological exploration. However, SAR image processing and analysis face inherent challenges: coherent speckle noise degrades image quality, while limited annotated datasets and poor open-source ecosystems restrict algorithm innovation. Additionally, traditional methods have high annotation dependence, weak generalization and inadaptability to complex scenarios. Addressing these issues is critical to unlocking SAR's full potential in intelligent interpretation. In this Special Issue, research areas may include (but are not limited to) the following: self-supervised learning for SAR noise suppression; foundation models for target recognition; small-sample/class-imbalanced SAR image classification; multi-modal SAR data fusion; and open datasets/evaluation benchmarks. We welcome original research articles presenting novel algorithms/models, reviews synthesizing domain progress and technical notes on open-source tools or datasets.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editorial Board

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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