

Special Issue

Foundation Models and Deep Learning for Intelligent SAR Image Understanding and Analysis

Message from the Guest Editors

Synthetic aperture radar (SAR) enables reliable Earth observation regardless of illumination conditions, cloud cover, or adverse weather, making it a critical data source for applications such as military reconnaissance, maritime surveillance, disaster assessment, and urban management. In recent years, the volume of SAR data has increased rapidly, driven by missions such as Sentinel-1 and Gaofen-3, as well as emerging and planned satellite constellations. High-resolution, multi-polarization, and multi-mode SAR imagery is now routinely acquired over large geographic areas, substantially expanding both the scale and complexity of interpretation tasks, ranging from target-level detection and recognition to scene-level segmentation and change detection. To address these growing demands, SAR interpretation methods have evolved rapidly over the past decade, shifting from hand-crafted feature engineering toward data-driven deep learning. More recently, foundation models have begun to

Guest Editors

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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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