# Special Issue

# High-Precision Calibration and Polarimetric and Interferometric Image Processing Technology

### Message from the Guest Editors

Synthetic aperture radar (SAR) plays a vital role in Earth observation. With the launch of new spaceborne SAR missions. SAR data have become increasingly diverse in terms of frequency bands (L/S/C/X/Ku), polarimetric modes (dual, full, and compact polarization), imaging modes (Stripmap, Spotlight, ScanSAR, and TopSAR), satellite orbits (GEO, MEO, LEO), and constellation configurations (single-satellite, dual-satellite, and largescale multi-satellite constellations). On the other hand, miniaturized and lightweight airborne SAR systems, such as UAV SAR, have become an important technological trend. This diversity brings both challenges and opportunities for developing highprecision calibration and advanced processing techniques to support quantitative SAR data applications. Calibration is the basis of quantitative SAR applications. High-precision calibration methods are essential for ensuring geometric, radiometric, polarimetric, and interferometric accuracy, enabling the generation of high-quality, multi-dimensional SAR datasets.

### **Guest Editors**

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### Deadline for manuscript submissions

30 November 2025



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/239835

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### Message from the Editor-in-Chief

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### Editor-in-Chief

### Dr. Prasad S. Thenkabail

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