

Special Issue

Multimodal Fusion for SAR Target Detection: Recent Advances and Challenges

Message from the Guest Editors

As an important remote sensing technology with the features of all-day, all-weather, and long-range operation, Synthetic Aperture Radar (SAR) can provide high-resolution imagery of the observed scenes and has found a wide range of applications in target monitoring and detection. With the rapid development of SAR systems and imaging techniques, a significant trend in modern SAR technology is integration with multiple data sources, including hyperspectral, optical, and passive radar sources. This trend toward **multimodal** sensing provides richer target information but also introduces new challenges for SAR target detection, including data registration, information fusion, and robust target feature interpretation. As a result, the related theory, key technologies, and applications of the multimodal fusion of SAR need to be widely investigated to enhance target detection performance, especially in complex environments. This Special Issue aims to present the **latest advances, emerging challenges, and future directions in multimodal fusion for SAR target detection**.

Guest Editors

Prof. Dr. Gang Xu

Dr. Bangjie Zhang

Prof. Dr. Lei Yang

Dr. Jianlai Chen

Dr. Jinsong Zhang

Deadline for manuscript submissions

30 April 2026



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/258510

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



About the Journal

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.

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)