Special Issue

Advances in Synthetic Aperture Radar: Calibration, Analysis, and Application

Message from the Guest Editors

Synthetic aperture radar (SAR) is known for its imaging potential in situations where darkness, clouds, or smoke obscures the view of optical sensors, so it is highly utilized for environmental observing. Nowadays, scientific and technical innovations in calibration, information extraction, new imaging techniques, and algorithms adjusting for various specific applications are demanded in the SAR field. This Special Issue aims to present studies covering almost all topics related to SAR. We welcome studies focusing on SAR basic theory, calibration, data processing, image interpretation, such as decomposition algorithms, and various applications. Articles may address, but are not limited, to the following topics:

- Calibration for SAR data;
- SAR applications;
- Present and future SAR systems and missions;
- Electromagnetic modeling;
- InSAR and high-resolution SAR;
- POL and POLInSAR;
- Bistatic SAR;
- SAR/GMTI/STAP and change detection;
- Image filtering, correction, and enhancement;
- SAR/ISAR signal processing;
- Advanced and innovative SAR concepts and modes;
- Artificial intelligence algorithms and applications in SAR.

Guest Editors

Dr. Fang Shang

Graduate School of Informatics and Engineering, University of Electro-Communications, Tokyo 1828585, Japan

Dr. Lamei Zhang

Department of Information Engineering, Harbin Institute of Technology, 92 Xidazhi St, Nangang, Harbin 150006, China

Deadline for manuscript submissions

closed (25 September 2023)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/132178

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

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

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)