

Special Issue

Advances in Synthetic Aperture Radar: Calibration, Analysis and Application (Third Edition)

Message from the Guest Editors

Synthetic aperture radar (SAR) is known for its imaging potential in situations where darkness, clouds, or smoke would obscure the view of optical sensors, so it is often used for observing the environment. Scientific and technical innovations in calibration, information extraction, new imaging techniques, and algorithm adjusting for various specific applications are currently in demand for their integration into SARs. This Special Issue aims to comprise studies covering almost all of the topics related to SAR. Hence, studies that focus on the basic theory, calibration, data processing, image interpretation such as decomposition algorithms, and various applications of SAR are welcome. 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 their applications in SARs.

Guest Editors

Prof. Dr. Lamei Zhang

Dr. Hao Shi

Prof. Dr. Deliang Xiang

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

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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.

Editors-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

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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