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

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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.

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