Special Issue

Advances in Synthetic Aperture Radar (SAR) System, Signal Processing and Applications

Message from the Guest Editors

Synthetic Aperture Radar (SAR) is an advanced remote sensing technology than can generate wide-swath and high-resolution images. Unlike optical sensors, it can facilitate all-day and all-weather Earth observation, and therefore is widely employed in environmental monitoring, disaster management, agriculture, forestry, and oceanography applications. This Special Issue focuses on reporting the latest progress in the Synthetic Aperture Radar (SAR) system signal processing and applications. Specifically, it includes (but is not limited to) the research of advanced technology and the newest concepts for microwave imaging and applications. Research areas may include (but are not limited to) the following:

- High-resolution and wide-swath (HRWS) SAR systems and signal processing;
- MIMO SAR technology;
- Distributed SAR technology;
- Adaptive/cognitive SAR systems;
- Digital beamforming for SAR systems;
- Waveform diversity for SAR systems;
- SAR jamming and anti-jamming;
- Ambiguity suppression technology;
- Multidimensional SAR imaging;
- AI for SAR imaging and applications;
- New concepts of future SAR systems.

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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