Special Issue

Advances of Ocean Circulation and Air-Sea Interaction Using Remote Sensing Techniques

Message from the Guest Editors

This Special Issue of *Remote Sensing* aims to showcase innovative research on the application of remote sensing techniques related to ocean circulation and air–sea interactions, with a particular interest in AI-enhanced methodologies. We seek contributions that demonstrate innovative approaches to satellite data processing, novel sensor applications, and advanced analytical methods. We particularly welcome studies that integrate multi-sensor data, employ AI and machine learning techniques, or address current challenges in ocean remote sensing in order to enhance our understanding of ocean circulation and air–sea interactions. We welcome the submission of original research articles, reviews, and technical notes that address the following topics:

- Satellite observations of ocean currents, eddies, and air–sea fluxes;
- Air–sea flux measurements using remote sensing;
- New satellite sensor technologies for ocean monitoring;
- Satellite data assimilation techniques for ocean models;
- AI-powered analysis of ocean remote sensing;
- Deep learning applications for feature extraction from satellite data.

Guest Editors

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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

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