Special Issue

Advancement of Environmental Studies with New SAR Sensors

Message from the Guest Editors

SAR has become a cornerstone of environmental monitoring, providing crucial data across a variety of domains, from forest management to climate change and urban planning. SAR's all-weather, day-or-night imaging capabilities make it particularly valuable for capturing high-resolution data across vast terrains. Under certain conditions, it can also penetrate vegetation, soil, and ice, making it indispensable for continual environmental surveillance, especially for operational purposes and where optical sensors fall short. As SAR technology advances, several current and upcoming satellite missions across the X, C, L, S, and P bands, as well as multi-polarization capabilities, are bound to expand our ability to monitor Earth's surface with unprecedented precision and scope. The objective of this Special Issue is to highlight the cutting-edge advancements and applications of SAR technology in environmental monitoring. This Special Issue will explore how researchers and practitioners can leverage the new acquisition capabilities to address urgent global challenges such as deforestation, climate change, and disaster management.

Guest Editors

Dr. Antonios Mouratidis

Deparment of Physical & Environmental Geography, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

Dr. Armando Marino

Biological and Environmental Sciences, Faculty of Natural Sciences, University of Stirling, Stirling FK9 4LA, Scotland, UK

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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 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

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