

Special Issue

Monitoring Earth Surface Processes with RADAR: UAV and Satellite Applications for Land and Water Management

Message from the Guest Editors

This Special Issue, “Monitoring Earth Surface Processes with RADAR: UAV and Satellite Applications for Land and Water Management”, aims to advance the understanding and application of RADAR technologies in assessing and managing Earth surface processes, particularly in the context of land and water conservation. It focuses on utilizing RADAR data from Unmanned Aerial Vehicles (UAVs) and satellite platforms, such as Sentinel-1, to enhance the monitoring, analysis, and management of key environmental processes, including soil erosion, hydrological dynamics, and landscape evolution. The scope of this Special Issue includes, but is not limited to, the following areas:

- The development and validation of RADAR-based models for monitoring Earth surface processes;
- Comparative studies on the efficacy of RADAR data from UAVs and satellites;
- Applications of RADAR remote sensing across diverse geographic and climatic contexts;
- The integration of RADAR data with hydrological and land management models to enhance predictive capabilities and decision-making.

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Deadline for manuscript submissions

closed (20 September 2025)



Water

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Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/209944

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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