

## Special Issue

# Recent Advances in Remote Sensing of Soil Moisture

### Message from the Guest Editors

Soil moisture is a key variable in a number of environmental processes, at both regional and global scales, due to its contribution to water, carbon and energy cycles. Therefore, soil moisture information is important for a wide range of applications, including hydrology, climatology and agriculture. Advancements in both active and passive remote sensing technologies, satellite remote sensing, drone technologies and data assimilation methods have been able to provide soil moisture estimations at different spatial scales from meters to tens of kilometers, as well as temporal resolutions from regional to global coverage. Data from passive microwave instruments, such as the multifrequency AMSR-E/2, FY-3 MWRI, L-band SMOS and SMAP, and active microwave instruments, including ASCAT/MetOp, ALOS-2, Sentinel-1 and the P-band GRACE, have in the last two decades been widely used for soil moisture applications at different spatial scales. This Special Issue aims to encourage the submission of studies covering recent advances in remote sensing in soil moisture.

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### Guest Editors

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### Deadline for manuscript submissions

14 November 2025



## Remote Sensing

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CiteScore 8.6



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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.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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