Special Issue

Agricultural Drought Monitoring Using Remote Sensing

Message from the Guest Editors

Agricultural drought is influenced by a range of forcing factors, including precipitation deficits, soil moisture depletion, and increased evapotranspiration, all of which interact to disrupt crop health, reduce productivity, and compromise food security. Monitoring these forcing factors and the subsequent response indicators, such as vegetation stress, changes in land surface temperature, and soil moisture conditions is essential for effective assessment and timely intervention. Remote sensing offers a robust and scalable solution by providing a continuous, large-scale monitoring capacity through a variety of satellite-based sensors. Topics of interest include the following:

- Development and validation of remote sensing-based drought indices;
- Integration of optical, thermal, and microwave sensors for drought detection;
- Applications of remote sensing data in early warning systems and sustainable water management;
- Comparative studies between satellite products and ground-based observations;
- Multi-scale assessments of drought impact on different crops and regions;
- Use of artificial intelligence and machine learning to enhance drought predictions.

Guest Editors

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Deadline for manuscript submissions

closed (28 May 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/222721

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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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