Special Issue

Soil Moisture Observation Using Remote Sensing and Artificial Intelligence

Message from the Guest Editors

Soil moisture (SM) is a key state variable that plays an important role in linking energy and carbon cycles, as well as terrestrial water in various hydrological and meteorological applications. The impact of SM in evapotranspiration, photosynthesis, runoff, soil respiration, flood events, surface heat flux partitioning, and droughts is very prominent. Thus, the seasonal variability of SM is a key element for land capacity to act as a carbon sink. Remotely sensed data offers the derivation of SM data on a global scale. Additionally, remotely sensed data for SM has advanced enormously in recent years. Artificial intelligence (AI) techniques have been integral in every field, including the processing of remote sensing (RS) data. AI achieves high performance, high accuracy, and is correlated with low statistical errors as a rapid decision tool under changing climate conditions. This Special Issue aims to showcase studies covering different applications of different AI techniques on different types of remote sensing data from a variety of sensors for soil moisture. Multiscale studies and studies related to ecosystem services are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2024)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/185855

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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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