Special Issue

Remote Sensing of Soil Moisture Retrieval with Radar, Radiometer, and GNSS-R

Message from the Guest Editors

Earth and Climate systems.Its estimation is crucial for monitoring the processes at the soil-vegetation-atmosphere interface that control the water, energy and carbon budgets.It is therefore required for scientific and operational applications related to agriculture, hydrology, meteorology and climatology.Furthermore, knowledge of soil moisture is also relevant for phyto-sanitary issues, ecology and bio-geochemical cycles. Thanks to their sensitivity to the water content of the target via its dielectric constant, the all-weather microwaves have demonstrated unique potential for estimating surface soil moisture, which in turn is used by the mean of the different approaches to estimate soil moisture in the root zone.

This Special Issue aims to present recent reviews and advances of general interest in the use of remote sensing observations for soil moisture monitoring.It focuses on approaches using microwave remote sensing data from existing satellites,whether passive (radiometers: SMOS,SMAP,AMSR-E,etc.) or active (SARs and scatterometers: ASCAT, SAR: Sentinel-1,Radarsat,TerraSAR,ALOS/PALSAR,SAOCOM,etc.), as well as GNSS-R instruments and ground and airborne experiments.

Guest Editors

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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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