

Special Issue

Remote Sensing of Soil Moisture and the Dynamics of Soil–Vegetation Systems

Message from the Guest Editors

Soil moisture is a crucial factor influencing the water cycle and vegetation dynamics, especially in arid and semiarid ecosystems and rainfed crops, where hydric conditions determine much of the vegetation growth. The monitoring of this variable is key to understanding vegetation productivity and phenology, the impacts of climatic variability on vegetation and carbon uptake, among others. During the last several decades, significant progress has been made in estimating water availability for vegetation. Microwave bands can retrieve soil water content, while other methods that use thermal and/or reflectance data are more associated to evapotranspiration or vegetation condition. Despite these significant advances, it is still necessary to understand processes at different spatial and temporal scales that determine the vegetation water condition and dynamics. In this sense, although geostationary satellites have mostly been used in the past for meteorological studies, they have the capability to make significant contributions to soil–vegetation system monitoring.

Guest Editors

Dr. Ankur Srivastava

Dr. Mauro Holzman

Dr. Facundo Carmona

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

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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

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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