remote sensing

an Open Access Journal by MDPI

IMPACT FACTOR 4.2

CITESCORE 8.3

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

Guest Editors:

Dr. Ankur Srivastava
UTS · Faculty of Science, University of Technology Sydney, Sydney, Australia

Dr. Mauro Holzman
1. Instituto de Hidrología de Llanuras "Dr. Eduardo J. Usunoff", Buenos Aires, Argentina
2. Faculty of Science, University of Technology Sydney, Sydney, NSW 2007, Australia

Dr. Facundo Carmona
Instituto de Hidrología de Llanuras Dr. Eduardo J. Usunoff, Universidad Nacional del Centro de la Provincia de Buenos Aires, Pinto 399, Tandil 7000, Argentina

Deadline for manuscript submissions:
30 September 2024

Message from the Guest Editors

Dear Colleagues,

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.

remote sensing

IMPACT FACTOR 4.2

CITESCORE 8.3

an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.
Journal Rank: JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
𝕏@RemoteSens_MDPI