Special Issue

Ecosystem Protection in Arid and Semi-Arid Regions Supported by Multi-Source Remote Sensing Data

Message from the Guest Editors

The widespread existence of natural and anthropogenic dryland ecosystems in arid and semi-arid regions is the key to mitigating desertification and desertification threats in this region and to addressing global climate change.

At present, the development of remote sensing science and technology provides a broader perspective for the study of ecosystem structure and function in arid areas. This special issue focuses on the multi-scale structure and ecological function changes of various ecosystems in arid and semi-arid areas supported by multi-source remote sensing data. The main research fields include high-precision inversion and mapping of ecosystems in arid and semi-arid areas supported by multi-source remote sensing image data, and the multi-scale structure characteristics of ecosystems in arid and semi-arid areas and their interaction mechanisms with ecosystem functions. Evolution law and driving mechanism analysis of ecosystem structure and function based on long time series remote sensing data, application of machine learning, GEE and other remote sensing technologies in ecosystem research in arid and semi-arid areas.

Guest Editors

Dr. Qiang Yu

Dr. Junran Li

Dr. Di Yang

Dr. Linyuan Li

Deadline for manuscript submissions

20 May 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/220693

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

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

MDPI

About the Journal

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

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)