Special Issue

Advances Remote Sensing Technique in Agriculture and Artificial Intelligence

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research and applications that leverage AI/machine learning/deep learning methods to address complex challenges in agricultural remote sensing data processing, analysis, and interpretation. We welcome submissions that feature novel algorithms, innovative data fusion strategies, and practical applications that demonstrate significant advancements for precision agriculture. Topics of interest include, but are not limited to, the following:

- AI-powered crop type mapping and classification.
- Deep learning for disease, pest, and weed detection/early warning systems.
- Fusion of multi-source RS data using AI.
- Predictive modeling for yield forecasting and water/nutrient stress.
- Machine learning for agricultural Big Data processing and decision support.
- Novel applications of RS and AI in livestock, forestry, or aquaculture.
- Novel AI architectures tailored for agricultural remote sensing signals.
- AI-enabled crop phenotype retrieval, stress detection, yield forecasting, and quality assessment.
- Climate-smart agriculture and carbon-sequestration monitoring via AI-enhanced remote sensing

Guest Editors

Dr. Yahui Guo
Dr. Meiyan Shu
Dr. Mario Cunha

Deadline for manuscript submissions

30 June 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/265530

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

About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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)

MDPI