Special Issue

Physics Informed Foundational Models for SAR Image Interpretation

Message from the Guest Editors

In the past two years, foundational models, such as CLIP, Grounding DINO, SAM, and SegGPT, have become the most popular new technology in artificial intelligence. The foundational models have more powerful feature representation and learning capabilities and can handle more diverse complex tasks and massive data. It can provide new technical methods and frameworks for remote sensing image interpretation tasks such as image classification, target detection, semantic segmentation, and change detection. This special issue aims to explore the cutting-edge research and application of foundational models in the field of remote sensing image interpretation. We sincerely invite authors to submit relevant research articles to *Remote Sensing* to improve the cutting-edge development of remote sensing image interpretation technology:

- New large-scale remote sensing image dataset
- image classification based on foundational models
- environmental parameters extraction based on foundational models
- images semantic segmentation based on foundational models
- multitemporal analysis based on foundational models .....

Guest Editors

Prof. Dr. Zhixiang Huang

Prof. Dr. Mihai Datcu

Dr. Jie Chen

Dr. Zhongling Huang

Deadline for manuscript submissions

31 August 2025

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/231011

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)