Special Issue

Research on Infrared Hyperspectral Remote Sensing Images

Message from the Guest Editors

Infrared hyperspectral data contains temperature and rich spectral information, enabling more precise revelation of radiation variations caused by land-atmosphere coupling processes. It also reflects the diagnostic characteristics of surface features unique to the infrared spectrum, demonstrating significant research value and application prospects. This Special Issue seeks to highlight cutting-edge research and applications in infrared hyperspectral hardware sensor development, inversion methods for critical land surface and atmospheric parameters, and typical applications, aiming to advance its utilization in resource/environmental monitoring, mineral exploration, target detection and related fields. We invite contributions on innovative methodologies, algorithms, and case studies leveraging infrared hyperspectral remote sensing imagery. Topics of interest include but are not limited to: radiometric calibration of infrared hyperspectral imagery; physical modelling of infrared remote sensing; retrieval of land–atmosphere parameters from infrared hyperspectral remote sensing imagery; validation of infrared remote sensing products; applications and data fusion.

Guest Editors

Dr. Liqin Cao

Dr. Hua Wu

Dr. Huazhong Ren

Prof. Dr. Chunlai Li

Dr. Xuan Zhang

Deadline for manuscript submissions

31 March 2026

Remote Sensing

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)