

Special Issue

Spatial Analysis and Modeling in Urban Remote Sensing

Message from the Guest Editors

Remote sensing technologies provide an innovative means for monitoring, synthesizing, and modeling urban environments. Especially, recent progress in very-high-resolution, hyperspectral, Lidar, and UAV remote sensing techniques, together with traditional medium-resolution and coarse-resolution imagery, have made the comprehensive understanding and modeling of urban environments possible. This Special Issue emphasizes the application of spatial analysis and modeling techniques for monitoring, synthesizing, and modeling urban environments. Topics of interest include, but are not limited to, the following topics:

- Urban land use/land cover mapping and change analysis;
- New sensors' (e.g., Lidar, UAV, and hyperspectral) applications in analyzing urban environments;
- Integration of social sensing and/or GeoAI techniques and urban remote sensing;
- Image processing algorithm development for monitoring and modeling urban environments;
- Public health applications (e.g., heat stress);
- Urban planning practices;
- Analysis and modeling of environmental impacts (e.g., flooding, air and water pollution, biodiversity, eco-environment, etc.).

Guest Editors

Dr. Wei Fan

School of Geoscience, University of South Florida, Tampa, FL 33620, USA

Prof. Dr. Changshan Wu

Department of Geography, University of Wisconsin-Milwaukee, Milwaukee, WI 53201, USA

Deadline for manuscript submissions

closed (28 February 2026)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/208323

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

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://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)