Special Issue

3D City Modeling and Sensing Using High-Resolution and Multi-Sensor Remote Sensing Data

Message from the Guest Editors

This Special Issue will showcase the potential benefits and challenges of using LiDAR point cloud data and remote sensing image for 3D city modeling and sensing. It will focus on leveraging high-resolution remote sensing data, particularly in areas such as data fusion, deep learning, and dynamic monitoring, to improve the accuracy and automation of 3D city modeling and urban sensing. We invite submissions on the following topics, including but not limited to:

- 3D city modeling methods and technologies based on high-resolution remote sensing data (e.g., LiDAR point clouds, optical imagery, SAR, etc.);
- Fusion and analysis of multi-sensor data for 3D city modeling and sensing applications;
- Object detection, classification, and segmentation techniques in urban environments;
- Dynamic monitoring and change detection in urban environments using remote sensing data;
- Automation of urban environmental sensing using deep learning techniques;
- Applications of 3D city models in smart cities, including digital twins, urban planning, and city management;
- .....

Guest Editors

Dr. Yu Zang

Dr. Weiquan Liu

Dr. Yan Xia

Dr. Ziyi Chen

Deadline for manuscript submissions

30 April 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/225607

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)