## **Special Issue**

# Geospatial Big Data and Remote Sensing for Urban Analysis

#### Message from the Guest Editors

The integration of geospatial big data and remote sensing is essential for addressing the complex challenges of modern urban analysis amid rapid global urbanization. Traditional static datasets fail to capture the dynamic, multi-scale complexities of urban systems -such as real-time mobility patterns, land-use changes, and climate vulnerabilities—whereas geospatial big data provide granular, real-time insights into human activities, and remote sensing offers synoptic views of urban structure and environmental dynamics at regional and global scales. This Special Issue highlights synergies between multi-source geospatial big data (mobile phone data, GPS trajectories, IoT sensors, OpenStreetMap, and social media geotags) and highresolution remote sensing (satellite/UAV imagery and LiDAR). This Special Issue welcomes contributions on the following topics:

- Novel methods for fusing geospatial big data and remote sensing in urban modeling
- AI/ML applications for urban feature extraction, change detection, and trend prediction
- Spatio-temporal analysis of urban mobility, land use, and resilience
- Decision support systems, digital twins, and visual analytics for urban planning

#### **Guest Editors**

Dr. Chen Zhou

Dr. Chao Sun

Dr. Shanqi Zhang

Prof. Dr. Manchun Li

#### Deadline for manuscript submissions

30 January 2026



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/244319

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

mdpi.com/journal/remotesensing





an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



### 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 peerreview 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)

