

Special Issue

Artificial Intelligence Methods Applied to Urban Remote Sensing and GIS

Message from the Guest Editors

Remote sensing and GIS techniques have gained increasing importance in rapid urbanization, the expansion of urban growth, and the enlargement of populations, due to the application of artificial intelligence, machine learning, and deep learning algorithms. This Special Issue aims to present the state-of-the-art research in optic, SAR, hyperspectral images, and GIS techniques for monitoring urban area environment corresponding to change of times using publicly available and commercial datasets such as satellite and UAV data. Given the reasons above, the aim of this Special Issue is to present the observation urban area and monitoring surrounding urban area in “Artificial Intelligence Methods Applied to Urban Remote Sensing and GIS. Some of the prospective/encouraged topics for this Issue include:

- Remote sensing applications in urban disaster monitoring using AI;
- Fusion of multispectral and SAR image applications;
- Hyperspectral image applications in urban area classification;
- Natural/artificial disaster monitoring;
- Deep/machine learning method algorithms;
- Change detection monitoring in urban areas;
- Water, river, and lake monitoring in and surrounding urban areas;

Guest Editors

Prof. Dr. Chang-Wook Lee

Prof. Dr. Hyangsun Han

Prof. Dr. Hoonyol Lee

Prof. Dr. Yu-Chul Park

Deadline for manuscript submissions

closed (30 April 2021)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/40334

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 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)