Special Issue

Change Detection and Semantic Characterization of Urban and Rural Environments Based on Remote Sensing

Message from the Guest Editor

Dear Colleagues, Each year, Earth-observing satellites generate hundreds of terabytes of data; AI and machine learning are thus needed to accelerate the processing and analysis of these images. With automation, we can determine the speed and scale needed to make the data relevant. In particular, change detection and semantic characterization could enable better monitoring of urban and rural environments and largely impact our society and our planet. A new wave of image processing, geospatial computer vision and machine learning techniques, can accelerate our understanding of changes occurring on the Earth's surface. To this end, this Special Issue is seeking papers presenting novel ideas, techniques and tools to improve change detection and semantic characterization. Topics of interest include, but are not limited to: structure detection, semantic segmentation, object identification, 3D representation, land cover change detection, feature extraction and classification, large-scale model generalization and multi-environment adaptation.

Guest Editor

Dr. Marc Bosch
Accenture, Washington, DC, USA

Deadline for manuscript submissions

closed (16 May 2023)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/117990

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

mdpi.com/journal/remotesensing

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

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)