



## **Advances in Object-Based Image Analysis—Linked with Computer Vision and Machine Learning**

Guest Editors:

**Dr. Ce Zhang**

School of Geographical Sciences,  
University of Bristol, Bristol BS8  
1QU, UK

**Prof. Dr. Peter M. Atkinson**

Faculty of Science and  
Technology, Lancaster University,  
Lancaster LA1 4YR, UK

**Dr. Huapeng Li**

Northeast Institute of Geography  
and Agroecology, Chinese  
Academy of Sciences,  
Changchun 130012, China

Deadline for manuscript  
submissions:

**closed (1 December 2021)**

### **Message from the Guest Editors**

The combination of object-based image analysis (OBIA) and deep learning (DL) represents an exciting area of research and has the potential to boost the precision of many practical applications to ground-breaking performances. In this Special Issue, we welcome submissions that offer the most recent advancements in deep learning and object-based image analysis for processing and analysing remotely sensed imagery. The topics of interest include but are not limited to the following:

- Semantic segmentation;
- Land cover and land use classification;
- Change detection;
- Deep convolutional neural networks (CNN) and other classification techniques;
- Object-based change detection and monitoring methods;
- Deep learning for data integration and sensor fusion;
- Cloud computing and Big Earth Data in deep learning and OBIA;
- Applications of deep learning and OBIA in remote sensing.





an Open Access Journal by MDPI

## 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

## 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.

## 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*)

## Contact Us

*Remote Sensing* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/remotesensing](http://mdpi.com/journal/remotesensing)  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)  
[X@RemoteSens\\_MDPI](https://twitter.com/RemoteSens_MDPI)