



## Remote Sensing and Artificial Intelligence Techniques for Ecological-Environment Quality (EEQ)

Guest Editor:

**Dr. Tri Dev Acharya**

Institute of Transportation  
Studies, University of California  
Davis, Davis, CA 95616, USA

Deadline for manuscript  
submissions:

**20 October 2023**

### Message from the Guest Editor

Anthropogenic activities and climate change are two major factors that are affecting the environment. In the context of sustainable development, the assessment of Ecological Environment Quality (EEQ) has provided an important knowledge base for environmental health. The improvement in EEQ seems to be an urgent but long-term topic. Therefore, how to support EEQ improvement is crucial.

Recent advances in Remote Sensing (RS) technology have provided abundant satellite data with various spatial and temporal resolutions. EEQ evaluations with RS are carried out by various measures such as Normalized Difference Vegetation Index, Environmental Quality Index, Environmental Sustainability Index, Environmental Performance Index, Ecological Environment Carrying Capacity, and Remote Sensing Ecological Index. Similarly, advancements in computing technology with artificial intelligence has made big data processing and extracting information about eco-environmental changes possible over time from local to global scales. A combination of these two popular techniques can provide real-time or near real-time information on the assessment of EEQ, with a higher performance in most cases.





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*  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/remotesensing  
remotesensing@mdpi.com  
@RemoteSens\_MDPI