



Recent Applications of Convolutional Neural Networks (CNNs) in Vegetation Remote Sensing

Guest Editor:

Dr. Abolfazl Abdollahi

Postdoctoral Research Fellow in Remote Sensing and Environment, ANU College of Science, Canberra, ACT 2601, Australia

Deadline for manuscript submissions:

closed (26 May 2024)

Message from the Guest Editor

Vegetation analysis and mapping is a critical component of monitoring the earth's ecosystems and understanding the impact of environmental changes on biodiversity and ecosystem services.

In recent years, Convolutional Neural Networks (CNNs), a type of deep learning algorithm, have emerged as a powerful approach for analysing remote sensing data and extracting valuable information about vegetation patterns and dynamics. CNNs enable researchers to extract complex features from large-scale remote sensing datasets, providing critical insights into vegetation distribution, composition, and dynamics.

The aim of the forthcoming Special Issue (SI) is to highlight the latest developments and applications of CNNs in vegetation remote sensing. The SI welcomes all types of manuscripts (e.g., original research articles, review articles, etc.) with an added value of using time series remote sensing data in all aspects regarding the mapping, change detection, trend analysis, and studies of drivers of vegetation change in all ecosystems using CNNs.





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

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)