



Deep Learning Methods for Hyperspectral Image Processing with Limited Labeled Samples

Guest Editors:

Dr. Renlong Hang

Prof. Dr. Yong Xie

Dr. Feng Zhou

Prof. Dr. Caroline Fossati

Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

Owing to abundant spectral and spatial information, hyperspectral images have played a significant role in many applications, such as mineral exploitation, precision agriculture, and climate monitoring. In recent years, deep learning technology has attracted much attention in the field of hyperspectral image processing, because of its powerful non-linear fitting ability. Generally, most of the existing deep learning models are based on supervised learning which demands considerable labeled samples to obtain satisfactory performance. However, the commonly used labeling methods for hyperspectral images, including field investigation and visual interpretation, are costly, time-consuming, and error-prone, thus limiting the number of available training samples.

This Special Issue aims at inviting the manuscripts that propose new deep learning technologies to deal with the small sample problem existing in hyperspectral image processing.





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, Grosspeteranlage 5
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)