

## Special Issue

# Dimensionality Reduction for Hyperspectral Imagery Analysis

### Message from the Guest Editors

Dimensionality reduction for hyperspectral remote sensing plays an important role in scientific applications. With the rapid advance of hyperspectral imaging technology, a vast and ever-growing amount of remote sensing data (i.e., high dimensionality) is readily available. The emergence of hyperspectral remote sensing has brought about a paradigm shift in many fields (especially in the geosciences) of data analytics, such as image processing and geoscience applications; for instance, the popular machine learning has evolved into high dimensional remote sensing data for feature extraction or selection, and provided tremendous power for dimensionality reduction and further applications. Therefore, the primary goal of this Special Issue of *Remote Sensing* is to provide the opportunity for researchers to discuss the state-of-the-art and trends of theories, methodologies, techniques, and applications for the dimensionality reduction of hyperspectral remote sensing and geoscience understanding. **Keywords**

- Hyperspectral remote sensing
- Intrinsic dimension analysis
- Information assessment
- Feature extraction
- Feature (band) selection
- Feature optimization
- Machine learning

### Guest Editors

Prof. Hongjun Su

Prof. Dr. Yanfei Zhong

Prof. Dr. Xiangrong Zhang

Dr. Chen Chen

### Deadline for manuscript submissions

closed (30 August 2019)



## Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/si/16517](https://mdpi.com/si/16517)

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

[mdpi.com/journal/  
remotesensing](https://mdpi.com/journal/remotesensing)





# Remote Sensing

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 8.6



[mdpi.com/journal/  
remotesensing](https://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)