

## Special Issue

# Advances in Deep Learning for Hyperspectral Image Processing

### Message from the Guest Editors

These days, artificial intelligence (AI) is applied in almost every domain of life, including in satellite remote sensing, medical image processing and so on. With the development of imaging technology, images with very high spectral resolution are proving to be an important asset in areas such as land use, land coverage, meteorology, vegetation mapping, military applications, disaster risk management, change detection, assisting diagnosis, predicting patient outcome, etc. Recent developments in imaging technology and AI technologies have provided great opportunities to develop reliable, accurate and time-effective solutions and indicators to overcome climate and environmental change challenges. Regarding the massive amount of hyperspectral image (HSIs) data available, it is difficult to meet the growing demand for hyperspectral image applications by interpreting the images manually. Therefore, the need for methods to interpret HSIs automatically, efficiently and accurately presents a significant challenge in the research and application of HSIs technology.

---

### Guest Editors

Prof. Dr. Hongmin Gao

College of Information Science and Engineering, Hohai University,  
Nanjing 210098, China

Dr. Mingxiang Yang

China Institute of Water Resources and Hydropower Research, Beijing  
100038, China

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



[mdpi.com/si/152940](https://mdpi.com/si/152940)

*Applied Sciences*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.3



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



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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, Inspec, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)