



Crowd-Sourced Data and Deep Learning in Remote Sensing: Methods and Applications

Guest Editors:

Dr. Zelang Miao

School of Geosciences and Info-Physics, Central South University, Changsha 410083, China

Prof. Dr. Hao Wu

College of Urban and Environmental Sciences, Central China Normal University, Wuhan 430079, China

Dr. Dongyang Hou

School of Geosciences and Info-Physics, Central South University, Changsha 410083, China

Deadline for manuscript submissions:

27 January 2025

Message from the Guest Editors

Dear Colleagues,

Although we are living in a global Big Data era, the challenges to intelligent satellite image interpretation still remain. The advances in deep learning have significantly improved image processing capacity. The number and variety of training sample data, however, is insufficient for processing the large volume of multi-source satellite images. From a different research perspective, the evolution and exponential growth of modern information technology (e.g., smart mobile devices) has expedited the availability of large amounts of data, the so-called crowd-sourced data. The crowd-sourced data produced by people worldwide, either accidentally or intentionally, is proven to be an essential and cost-effective tool in a wide range of practical applications, such as training sample collection. To date, only a few studies have examined the integrated applications of crowd-sourced data and deep learning in the community of remote sensing, and thus further studies are necessary in order to address this topic.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/Applsci)