Special Issue

Machine Learning and Remote Sensing for Automatic Map Creation and Update

Message from the Guest Editor

In recent years, we have experienced an exponential increase in remote sensing datasets derived from different sources (satellites, airplanes, UAVs) at different resolutions (up to few cm) based on different sensors (single bands sensors, hyperspectral cameras, LIDAR, etc.). At the same time, parallel developments in IT allow for the storage of very large datasets (up to petabytes) and their efficient processing (through HPC, distributed computing, use of GPUs). In taking this perspective, this Special Issue aims to contribute to the field by presenting the most relevant advances in this research area. The following are some of the topics proposed for this Special Issue (but not limited to):

- Land cover mapping and land cover changes;
- Forest resources mapping (both quantity and quality);
- Crop/vegetation mapping (both quantity and quality);
- Natural hazards (e.g., presence of disease, drought);
- Hydrology;
- Landscape monitoring;
- Soil monitoring/geology.

Applications can be related to the use of any type of remote sensing data on in any geographical area (including developing countries).

Guest Editor

Dr. Jonathan Rizzi
Norwegian Institute of Bioeconomy Research (NIBIO), Norway

Deadline for manuscript submissions

closed (30 December 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/42504

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)