



## Artificial Intelligence Pathway for Environmental Sustainability: Monitoring, Modeling, and Decision Making

Guest Editors:

**Dr. Omid Rahmati**

Soil Conservation and Watershed Management Research Department, Kurdistan Agricultural and Natural Resources Research and Education Center, AREEO, Sanandaj, Iran

**Dr. Zahra Kalantari**

Department of Physical Geography and Bolin Centre for Climate Research, Stockholm University, SE-10691 Stockholm, Sweden

Deadline for manuscript submissions:

**closed (30 September 2022)**

### Message from the Guest Editors

Geo-environmental modeling, an approach for simultaneously managing and learning about natural processes on the landscape scale, has been widely applied for efficient environmental management for several decades. AI technology, such as algorithms, data-mining, and statistical models, can provide vital information about the relationships between natural resources, natural disasters (flood, ground subsidence, landslide, debris flow, wildfire, etc.), geo-environmental factors, and human activities, and thus can support adaptive decision making. AI technology allows for the inclusion of knowledge processing (decision support systems) for sustainable natural resource management.

This Special Issue will benefit natural, environmental, social, and sustainability scientists, engineers, managers, and other stakeholders with an interest in the GIS-based machine learning modeling of natural disasters and environmental planning. This open access Special Issue welcomes high-quality and innovative scientific papers describing cutting-edge research related to the application of artificial intelligence approaches, GIS, and remote sensing techniques in the study of sustainability-related issues.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

## Contact Us

*Sustainability* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)