

## Special Issue

# Predictive Modeling through Earth Observational Data Analysis for Natural Hazards Risk Assessment and Disaster Management

### Message from the Guest Editors

The natural geo-environment of planet Earth is under extreme stress caused largely by human-induced dynamic perturbation in the natural environment and climate domain. Impact assessment of climate change on the natural setup of planet Earth observed through the increasing intensity of natural hazards is vital for understanding the future potential and risk to humans, as well as devising techniques to combat the ill effects of natural hazards and human-induced disasters. Earth observation (EO) data obtained via remote sensing provide adequate opportunities to model the geo-aspects of different hazard potentials and their risk-inducing capabilities. When modeled through geoinformatics techniques, such spatial data become very effective in near real-time hazard predictions. Such cost-effective solutions can safeguard human fatalities by spatial planning during natural-anthropogenic disasters.

The Special Issue aims to reconcile multi-disciplinary scientific knowledge of EO and climate data for mapping natural hazards and human-induced disasters using geospatial modelling approaches.

---

### Guest Editors

Prof. Dr. Arvind Chandra Pandey  
Dr. Bikash Ranjan Parida  
Dr. Surajit Ghosh

---

### Deadline for manuscript submissions

closed (29 February 2024)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/152530](https://mdpi.com/si/152530)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



# About the Journal

## 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

---

## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, 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 and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)