



Modeling and Managing Catastrophic Risks in Heterogeneous Systems

Guest Editors:

Dr. Tatiana Ermolieva

International Institute for Applied
Systems Analysis (IIASA), 2361
Laxenburg, Austria

ermol@iiasa.ac.at

Dr. Michael Obersteiner

International Institute for Applied
Systems Analysis (IIASA), 2361
Laxenburg, Austria

oberstei@iiasa.ac.at

Prof. Dr. Yurii Ermoliev

International Institute for Applied
Systems Analysis (IIASA), 2361
Laxenburg, Austria

ermoliev@iiasa.ac.at

Deadline for manuscript
submissions:

31 December 2021

Message from the Guest Editors

The aim of the Special Issue on “Modeling and Managing Catastrophic Risks in Heterogeneous Systems” is to provide researchers from diverse scientific areas with a possibility to discuss various cross-disciplinary problems of effectively and robustly dealing with uncertainties and risks in heterogeneous interacting natural and anthropogenic systems, including food, energy, water, environmental, social security management, economic, engineering, healthcare decision-making in the presence of uncertainty and risks.

Contributions to the Special Issue can address, but are not limited to, the following topics: robust policy analysis and decision-making in interdependent food, water, energy, environmental systems under uncertainty and risks; food, energy, water, environmental, social and health security problems; spatio-temporal modeling and management of catastrophic risks; robust estimation, machine learning, and Big Data problems; stochastic dynamic programming; STO with probabilistic chance constraints; approaches to discounting for long-term projects.





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. 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.

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](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

Journal Rank: [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

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

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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