Special Issue

Advances in Hydrological Modelling, Quantitative Analysis and Prediction for a Changing Environment

Message from the Guest Editors

Over the last two decades, there has been a huge increase in hydrological model applications with a focus on global changes, particularly on water resources and the impact on regional hydrological processes, among which the evaluation of the climate change impact has been a major area. We are organizing this Special Issue and cordially invite researchers and practitioners in the wider modelling community to submit research papers related (but not limited) to the following aspects:

- Progress in modelling hydrological processes in a changing environment
- New model structure and design to address the social dimensions and interactions when building societal resilience to the changing environment
- Utilization and mining of large environment datasets to support environment change prediction and planning using data-centric techniques
- Identification and prediction of abrupt environment changes, e.g., from floods to droughts.
- The role of hydrological modelling in mitigating and building resilience to the hazards caused by environmental change
- Hydrological prediction and hydrological uncertainty analysis based on probabilistic perspectives.

Guest Editors

Dr. Yunqing Xuan

Dr. Zhiyong Liu

Prof. Dr. Hongyan Li

Deadline for manuscript submissions

closed (31 December 2021)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 6.8

mdpi.com/si/80539

Sustainability
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/sustainability

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 6.8

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. *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.

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

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)

MDPI