Smart Flood Resilience Integrating AI and Hydraulic and Horologic Modeling

Guest Editors:

Dr. Faxi Yuan

Prof. Dr. Ian Flood

Dr. Kaiwen Chen

Dr. Yuanxin Zhang

Deadline for manuscript submissions:
closed (15 May 2024)

Message from the Guest Editors

Recent urban floods, such as the 2021 Henan floods and Hurricane Harvey in 2018, have tremendously impacted society by causing breakdowns of supply chains, failure of civil infrastructures, and damage to homeowner properties. Around the world, various cities have already demonstrated how a proactive, coordinated response to flood events yields immediate results in terms of recovering from shocks and lays the foundations for long-term resilience.

This Special Issue seeks submissions under the theme of smart flood resilience. Potential topics include, but are not limited to:

Urban AI and big data analytics for situational awareness and crisis management in floods/hurricanes; Network systems modeling and analysis for social and infrastructure networks; Flood risk modelling and impact assessment integrating hydrologic/hydraulic modeling and AI approaches; Flood risk management, mitigation, and adaptation; Spatiotemporal analysis of social and built environmental resilience; Equity issues from smart flood resilience; Smart and sustainable urban food systems in the context of floods and hurricanes.

Special Issue

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