

Special Issue

Smart Flood Resilience Integrating AI and Hydraulic and Hydrologic Modeling

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.

Guest Editors

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Deadline for manuscript submissions

closed (15 May 2024)



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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

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