Special Issue

Risk Assessment and Mitigation for Water Conservancy Projects

Message from the Guest Editors

Water conservancy projects, such as those involving dams, dikes, and water diversion projects, play extremely important roles in flood control, power generation, water supply, irrigation, and improving water resource allocation. However, due to natural aging and the increasing frequency of extreme weather events, water conservancy projects face significant risks. Therefore, this Special Issue primarily solicits contributions addressing the following topics: (a) Structural safety analysis of water conservancy projects;
(b) Operational risk assessment of water conservancy projects
(c) Evaluation of potential dam or dike breach consequences;
(d) Water conservancy projects risk management;
(e) Operational management of water conservancy projects;
(f) Smart management of water conservancy projects.
The research findings will provide effective theoretical and technical support for risk assessment and mitigation for water conservancy projects.

Guest Editors

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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