Special Issue

Intelligent Safety Diagnosis and Reinforcement of Water-Related Buildings

Message from the Guest Editors

Water-related buildings exhibit characteristics such as remote geographical locations, numerous installations, and dispersed distributions. The methods for information transmission vary significantly. Traditional small and medium-sized water-related buildings are primarily monitored through manual techniques, leading to infrequent monitoring and the involvement of inadequately trained personnel. This results in substantial information transmission delays, creating challenges for management units. The introduction and implementation of safety monitoring and detection systems for water-related buildings offer innovative approaches to safety management. AI technology holds significant promise in the realm of damage intelligent diagnosis and damage reinforcement of water-related buildings, which constitutes the central focus of this issue. [...] Keywords: structural safety; intelligent management; dike safety; machine learning; deep learning; structural reinforcement.

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About the Journal

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.

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