Special Issue

Smart Disaster Prevention, Risk Reduction and Post-Disaster Rescue in Civil Engineering

Message from the Guest Editors

Against the backdrop of global climate change and rapid urbanization, natural hazards and extreme events pose increasingly severe threats to human society and infrastructure. This issue aims to gather cutting-edge research and practical applications on intelligent sensing, advanced equipment, big data analytics, artificial intelligence, digital twins, and robotic technologies for the disaster prediction, structural health monitoring and inspection, disaster mitigation, emergency management, and functional recovery. Topics of interest include, but are not limited to: AI-based disaster scenario modeling, disaster evolution simulation, structural resilience enhancement, post-disaster assessment, and optimization of rescue resource allocation. By showcasing scientific advances and engineering practices, this special issue is dedicated to advancing the intelligent transformation of civil engineering and providing solutions for building safer, more resilient, and sustainable urban environments.

Guest Editors

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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