Special Issue

New Directions in Hazard and Disaster Science: Advances in Applied Sciences

Message from the Guest Editor

Hazards, risk and disasters—including geologic and hydrological processes, intentional threats, and health-related crises—are a growing menace to sustainability, economic development, and global security. For example, there are a wide variety of natural hazards (volcanic eruptions, earthquakes, landslides, mudflows, sinkholes, snow avalanches, flooding, and tsunamis) that pose a critical threat to pivotal infrastructure systems and life safety. Advances in hazard and disaster science and management are needed to cope with potentially hazardous human threats as well as geoprocesses.

This Special Issue examines a new set of applied science tools in the Big Data era that that can help to reduce the impact of these natural, technologic, intentional, and health-related threats. There are advances in applied sciences that can directly reduce the likelihood, impact, and vulnerability of communities to disaster. These solutions also provide new opportunities for the analysis and management of all types of disaster risks.

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Message from the Editor-in-Chief

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.

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