

Special Issue

Engineering Disaster Prevention and Mitigation: Challenges to Civil Infrastructure Sustainability

Message from the Guest Editors

In many cases, the great progress made in civil engineering technology is often the result of struggles with various natural or human-made disasters. As the scale of global engineering infrastructure continues to increase, disaster prevention and mitigation during the construction and operation periods are receiving more and more attention. In recent years, strong earthquakes have occurred frequently all over the world, leading to a large number of buildings, bridges, and tunnels being destroyed; moreover, the damage to infrastructure owing to secondary disasters caused by earthquakes, such as geological disasters, fires, and tsunamis, cannot be ignored. In addition, more frequent historic extreme climates seriously challenge the sustainability of existing structures and are therefore seen as a new type of engineering disaster. At the same time, due to the increasing tension in the global political situation, current and potential wars have posed a great threat to various engineering structures. Therefore, the ability of civil infrastructures to defend against military strikes, which can be treated as artificial disasters, has also become the focus of engineers.

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Deadline for manuscript submissions

closed (28 February 2025)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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