



Damage to Civil Engineering Structures

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Civil engineering structures are frequently exposed to highly influential actions that may considerably affect their functioning condition, degrade their stiffness and strength, or cause substantial damage to key structural components which, under certain conditions, can lead to widespread collapse. Regardless of the cause and the extent of the damage, limiting the subsequent effects on the structural behaviour—either through timely rehabilitation, the appropriate strengthening of existing structures, or the proper design of new structures to effectively respond to such actions—is of the utmost importance.

In this Special Issue, authors are kindly invited to submit high-quality original papers presenting new research developments, case studies, projects in progress, and review studies related to structural damage due to environmental actions, aging effects, or exposure to extreme loading conditions such as fire, explosion, or earthquake.



Editor-in-Chief

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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