Special Issue

Research on State Assessment and Strengthening Technique of Building Structure

Message from the Guest Editor

At present, there are a large number of existing buildings worldwide, some of which have become cultural relics. The structural forms of existing buildings include masonry structures, timber structures, reinforced concrete structures, steel structures, and so on. During the use of existing buildings, factors such as material performance degradation, increased floor load, structural modifications, and improvement of seismic requirements are inevitable, which may pose structure safety hazards. Therefore, it is necessary to conduct a state assessment of existing building structures and decide whether to take effective strengthening measures. This has attracted the attention of many researchers and engineers worldwide, and more innovative state assessment methods and strengthening techniques are worth studying. This Special Issue focuses on the latest developments in the abovementioned research content.

Guest Editor

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About the Journal

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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