



Seismic Assessment and Rehabilitation of Reinforced Concrete (RC) Structures

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Message from the Guest Editors

Dear Colleagues,

It is well known that reinforced concrete (RC) structures built decades ago were designed according to old design codes and provisions, and their seismic performance tends to be much weaker than those designed by using the current codes and provisions. The structural deficiencies of RC structures designed according to the old codes and provisions, including low concrete strength, insufficient stirrup configuration, insufficient shear performance in joint regions or beam-column ends, and insufficient anchoring, etc., may lead to these structures being vulnerable to damage or failure due to the insufficient performance under earthquake activity. As a result, there is an urgent need for RC structures to be assessed and rehabilitated to avoid inevitable losses under seismic loadings, such as damage, failure, and collapse of structures, potentially resulting in loss of lives.

Within this frame, we welcome the submission of original papers related to the above topics as well as those that deal generally with the related methodologies, numerical and experimental investigations, and case studies addressing the seismic assessment and rehabilitation of RC structures.





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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