

Earthquake Resistant and Vibration Control of Concrete Structures

Guest Editors:

Dr. Yao-Rong Dong

School of Civil Engineering, Xi'an
University of Architecture and
Technology, Xi'an 710055, China

Dr. Yeshou Xu

School of Civil Engineering,
Southeast University, Nanjing
211189, China

Prof. Dr. Lihua Zhu

School of Civil Engineering, Xi'an
University of Architecture and
Technology, Xi'an 710055, China

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Message from the Guest Editors

Dear Colleagues,

This Special Issue seeks relevant research studies on experiments and theory for concrete structures. The problems in this field and their solutions, which are international in character and require the knowledge of several traditional and advanced disciplines. The scope of Earthquake Resistance and Vibration Control encompasses, but is not restricted to, the following areas: commercial and public buildings; tall buildings; concrete structures; innovative structures; structural design; structural analysis; structural reliability/robustness; structural retrofitting; structural assessment; structural health monitoring; structural damping; seismic isolation; passive and active systems for earthquake protection; geotechnical earthquake engineering; dynamic soil–structure interaction; seismic response of buildings; seismic code requirements; earthquake-resistant design methods; earthquake disaster mitigation; seismic risk assessment, structural vibration control, etc. Submitted studies shall clearly demonstrate their significant scientific novelty and contribution.



Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
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