Special Issue

Advances in Vibration Control of Civil Structures

Message from the Guest Editors

Vibration control is essential for enhancing the safety, durability, and functionality of civil structures subjected to dynamic loads such as earthquakes, wind, waves, and traffic. Advanced vibration control systems help to extend infrastructure lifespan, reduce maintenance costs, and improve structural resilience. This Special Issue focuses on recent advancements in vibration control, including theoretical developments, innovative materials and devices, analysis and design methods, and performance evaluation. Topics of interest include, but are not limited to, the following:

- Fundamental Theories and Design Methods;
- Damping Materials and Devices;
- Seismic Isolation and Energy Dissipation;
- Wind-Induced Vibration Control;
- Semi-Active, Active, and Smart Control Systems;
- Case Studies on Bridges, Buildings, Wind Turbines, and Other Structures.

We welcome original research and review articles. Please refer to the journal's website for submission details.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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