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Damping Control of Building and Bridge Structures

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Message from the Guest Editors

Vibration of building and bridge caused by running train, earthquake and crosswind greatly affects the structural performance, which has been widely focused in actual engineering. Aiming at this problem, vibration control methods are widely employed in building and bridge engineering. This Special Issue focuses on building and bridge vibrations caused by running train, earthquake, crosswind and so on. The potential topics for this issue include, but are not limited to, the following:

- modeling of building and bridge vibrations
- analysis of building and bridge dynamic behaviors
- experimental studies of building and bridge vibrations caused by running train, earthquake and crosswind
- vibration control of building and bridge

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/911073NS79

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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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