

## Impact of Ambient Vibration on Evaluating Existing Buildings

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### Message from the Guest Editors

This Special Issue is open to researchers, academics, and practitioners in the field of the impact of vibration on buildings. Today, there are many experimental and numerical tools for measuring and simulating dynamic processes in buildings. Ambient vibration has adverse effects but can also serve as a tool for building diagnostics. Further, modern materials are being developed rapidly in terms of their properties to reduce the negative effects of vibrations. Ambient vibration also causes explosions and blasting. Thus, the Special Issue also focuses on the identification of cracks by modern experimental methods whereby ambient vibrations are used as an exciter of vibrations.

Please feel free to contact us (daniel.papan@uniza.sk or kovacs.tunde@bkg.uni-obuda.hu) with any questions you may have about this Special Issue. For scholars interested to submit papers to the Special Issue, please click “Submit to Special Issue” or contact astoria.yao@mdpi.com.



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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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