

Special Issue

Building Acoustics and Noise Management

Message from the Guest Editors

Building Acoustics and Noise Management are essential elements that significantly impact indoor environmental quality, occupant comfort, and building performance. With sustainability and energy efficiency increasingly emphasized in building designs, it is crucial to incorporate effective noise control measures that not only reduce noise levels but also contribute to the overall well-being and productivity of building occupants. The highlighted areas in this Special Issue include but are not limited to: perception and health impacts, room acoustics, building envelope, standardization of subjective evaluation methods, sound masking, AI and machine learning applications, building acoustics regulations, sound transmission control, acoustic insulation and absorption, and noise management strategy. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/I55E7812RN

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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.

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