Special Issue

Acoustics and Well-Being: Towards Healthy Environments

Message from the Guest Editor

The creation of acoustically optimized environments is essential for the holistic well-being of individuals. Researching and developing sustainable solutions and high-efficiency acoustic materials are fundamental to significantly improve environmental quality in interior spaces and the outdoor environment. This Special Issue aims to compile and analyze pioneering proposals for materials and techniques that enhance the acoustic properties of interior spaces in various contexts, including office environments, healthcare facilities, and educational settings. Additionally, detailed analytical studies will be presented, providing guidelines for the acoustic optimization of spaces and essential criteria for effective and efficient acoustic conditioning. This compendium intends to serve as a valuable resource for architects, acoustic engineers, interior designers, and construction professionals, providing up-to-date information and practical solutions for creating acoustically healthy and comfortable environments.

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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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