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Acoustics and Perception in Special Shape Spaces

Guest Editors:

Prof. Dr. Hui Ma
School of Architecture, Tianjin University, Tianjin 300072, China

Prof. Dr. Yuezhe Zhao
School of Architecture, South China University of Technology, Guangzhou 510006, China

Dr. Chao Wang
School of Architecture, Tianjin University, Tianjin 300072, China

Deadline for manuscript submissions:
closed (20 February 2024)

Message from the Guest Editors

Dear Colleagues,

With the evolution of room acoustics science, sound propagation in auditoriums has become thoroughly understood and accurately predicted by various models. In this Research Topic, any research that contributes to our understanding of acoustics and perception in special spaces, including, but not limited to, extra-large waiting spaces, exhibition halls, large sports stadiums, and subways, etc., is welcome for submission. We also expect interdisciplinary communication and cooperation among researchers in acoustics, psychology, physiology, sociology, and so on, to make the study's scope more distinct, elaborate, and prolific.

This Topic include, but are not limited to:

- Systematic studies on the acoustic environment in special spaces
- In-depth discussion on the acoustic perceptual differences in special and ordinary spaces
- Research on tools and methods to evaluate the acoustics in special spaces
- The perceptual framework in the sound perception of special spaces by different occupants
- Changes in the acoustic situation and perception of special spaces during the COVID-19 pandemic
- Acoustic and non-acoustic factors on sound perception in special spaces

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Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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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Contact Us

Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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