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Building Physics, Structural and Safety Engineering

Guest Editors:

Prof. Dr. Xin Ren
College of Civil Engineering, Nanjing Tech University, Nanjing 211800, China

Dr. Yaolin Lin
School of Environment and Architecture, University of Shanghai for Science and Technology, Shanghai 200093, China

Dr. Teng Shao
Associate Professor, School of Mechanics, Civil Engineering and Architecture, Northwestern Polytechnical University, Xi'an 710129, China

Deadline for manuscript submissions:
closed (20 April 2023)

Message from the Guest Editors

The subjects of building physics, structural and safety engineering have always been popular research topics for global scientists across many fields, including, but not limited to, architecture, civil engineering, and safety engineering. In recent years, considerable scientific progress has been achieved regarding the related research themes.

The main theme of this Special Issue is dedicated to the recent advances in the design, theoretical, numerical, and experimental study of building physics, structural and safety engineering. The topics of particular interest of this Special Issue include (but are not limited to):

- Safety engineering;
- Buildings system and building materials;
- Energy and environment;
- Green building and architecture;
- Structural engineering;
- Disaster Prevention and Mitigation Project;
- Smart materials and structures;
- Construction and composites;
- Structural health monitoring;
- Civil engineering and architecture.

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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, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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