Special Issue

Research on Durability, Resilience and Stability of Building Structures

Message from the Guest Editors

Durability, resilience and stability are essential attributes that civil engineering structures possess to ensure their long-term performance. For structures, durability is not only affected by complex environmental factors but also by human factors such as construction quality and material characteristics. Therefore, in the design and construction stages, we must fully consider various factors related to durability, toughness, and stability. Throughout the engineering process, low-carbon, eco-friendly, and intelligent materials and construction technologies with excellent durability should be selected to strengthen structural protection and maintenance and ultimately extend the service life of the structure. In addition, by optimizing structural design and construction practices through the improvement of the durability, toughness, and stability of structures, the functional recovery of engineering structures after disasters could be accelerated, thereby mitigating the impact of such events on existing infrastructure. Thus, to advance this field, we launched the project in the context of low carbon materials, environmental protection, and intelligent technology.

Guest Editors

Dr. Yang Liu

Dr. Bo Lu

Dr. Songbo Ren

Prof. Dr. Wei Zhao

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

mdpi.com/journal/buildings

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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.

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

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