Special Issue

Structural Safety and Stability of Buildings: Novel Methods, Materials and Measurements

Message from the Guest Editors

The structural safety and stability of buildings are paramount concerns in today's rapidly urbanizing world. In recent years, plenty of novel methods, materials, and measurements are developed to enhance building safety and stability, thus protecting lives and properties; however, more methods, materials, and measurements are required to adapt the diverse structural forms and complex strata. This Special Issue, on “Structural Safety and Stability of Buildings: Novel Methods, Materials and Measurements”, aims to bring together cutting-edge research advances in the structural safety and stability of buildings. We invite you to contribute original research articles or reviews related to the topic, including, but not limited to, the performance of buildings and structures, the evaluation of the structural safety and stability of buildings, new theoretical and experimental methods, new materials with which to enhance the performance of buildings, novel measurements to protect buildings and structures, etc. Moreover, advanced intelligent algorithms or sensing techniques are very welcome. This scope is not exhaustive; therefore, feel free to be inventive!

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2025)

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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

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