

The Methods, Tools and Techniques for the Preservation of Existing Structures

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Message from the Guest Editors

This Special Issue aims to collect original and high-quality papers discussing the tools, methods, procedures for the assessment, monitoring, reconstruction, maintenance and preservation of existing structures. Descriptive papers addressing the existing masonry, concrete, steel and timber structures are welcome. Structural updating, Value of information modelling and reliability analyses in the case of existing structures are highly appreciated.

The main idea of this Special Issue is to gather a database of methods, tools, and different types of analyses for:

- Assessment of existing structures
- Heritage preservation
- The role of material, component, and assembly aspects in the behaviour of existing structures
- Monitoring of existing structures
- Use of emerging technologies in the prediction of structural behaviour
- Advances in numerical modelling of existing structures
- Decision-making process and reconstruction of existing structures
- Reliability analyses and standardization in the field of existing structures

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Special Issue

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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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