Special Issue

Research on Structural Analysis and Design of Civil Structures

Message from the Guest Editors

Structural analysis and design are integral to the construction and maintenance of civil structures, such as buildings and bridges, as they ensure compliance with safety standards and structural soundness. Therefore, research in this field is critical to furthering our understanding of these processes and improving structural stability and safety. One of the areas of research in structural analysis is theoretical analysis. This method uses mathematical models to predict how a structure will behave under different loads and stresses, allowing researchers to test the effectiveness of different structural designs and develop new frameworks for structural integrity, leading to the creation of more stable and efficient structures. Performance evaluation is another area of research that assesses how well a structure performs under load. This type of research provides data on a structure's current performance and can identify areas of weakness that need improvement. By optimizing the structural design, performance evaluation can help structural engineers develop new ways to improve the stability and resilience of civil structures.

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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.

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