Special Issue

Advancements in Tall Building Structural Systems to Resist Lateral Loads: Primary Structural Systems and Auxiliary Damping Systems

Message from the Guest Editor

Tall buildings, with their global symbolic presence and economic benefits in dense urban land use scenarios, are a worldwide architectural phenomenon. Due to their height, tall buildings are built with the most advanced technologies. This Special Issue of Buildings invites articles on the evolution and emerging developments of structural systems in tall buildings to resist lateral loads. This Special Issue invites articles on advancements in tall building structural systems to resist wind and seismic loads, including primary structural systems and auxiliary damping systems. With the prevalence of tall buildings in major cities throughout the globe and the concerns generated by this building type, more investigative work into the role of tall buildings and their technologies is crucial in academia and the building industry to create more sustainable built environments. Thank you for considering to contribute to this important effort.

Guest Editor

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Deadline for manuscript submissions

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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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