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Advancement of Technologies in Tall Buildings: Evolution and Emerging Developments

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2022)

Message from the Guest Editor

In recent years, tall buildings have become even taller and the height of over 1 km will be reached soon. The importance of thoughtful structural design is more significant for taller structures due to the "premium for heights." The issues of vertical transportation, as well as fire and life safety, are more critical in tall buildings, especially as their heights are continuously increased. Because of their enormous scale, tall buildings are constructed with an abundant amount of resources and consume lots of energy during occupancy. Obtaining greater sustainability based on technology and design is one of the most important issues for built environments today to save our limited resources. This Special Issue invites articles on technological evolution as well as emerging new technologies for tall buildings.

With the prevalent emergence of tall buildings in major cities throughout the globe and the concerns that this building type has generated, more investigative work into the role of tall buildings and their technologies is crucial in academia and the building industry. Thank you very much for your consideration to contribute to this important effort.

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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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