Special Issue

Current Status and Future Perspectives of Construction Waste Management: Making the Giant Leap towards a Zero-Waste Future

Message from the Guest Editors

Of all the industrial sectors, the construction sector generates the largest quantities of waste to landfill and continues to consume a voluminous share of the Earth's natural resources. Due to its unfavourable impacts on the environment and associated costs, the overall sustainability of the construction sector depends on how well it manages its waste generation. There are opportunities to minimise and/or eliminate waste throughout the project delivery process, including the planning, design, procurement, construction, refurbishment and/or demolition stages of any project. Acknowledging that the construction sector has already made some first steps toward improving its environmental credentials, there remains the need to make enormous leaps in its customs and conventions towards sustainable targets before its performance satisfies expectations. As the construction sector is actively embracing and adopting smart designs, smart contracts, smart construction, smart technologies and smart buildings, it is essential that the current construction waste management practices and praxes are reappraised towards a smarter zero-waste future.

Guest Editors

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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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