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Construction Safety Management Using Digital Built Environment

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Deadline for manuscript submissions:
closed (20 December 2022)

Message from the Guest Editors

The high rates of fatalities and injuries in the construction industry highlight the importance of work health and safety (WHS). Digital collaboration tools, including building information modelling (BIM), are improving WHS management in construction. Integration of BIM and WHS management systems is challenging as it brings together two very diverse knowledge domains.

This Special Issue will explore various investigations and analyses of innovative approaches, ranging from theoretical, conceptual and empirical studies to simulation research, with the overall aim of advancing thought leadership on integration of digital built environments in order to promote work health and safety and well-being, thus improving general health outcomes.

Papers may address topics ranging across all life cycles of asset planning, design, delivery and use/maintenance targeted towards buildings and/or infrastructure. Individual exemplars and case studies from specific countries coupled with discussion concerning the broader global implications are encouraged, as well as those conducting cross-country comparisons.

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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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