



A Sustainable and Healthy Work Environment in Construction Industry 4.0

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to showcase research on creating a sustainable and healthy work environment by adopting construction industry 4.0 innovations.

Topics of interest include, but are not limited to:

1. The integration of technologies in construction workplaces;
2. The digitalisation and automation of work processes;
3. The impacts of smart construction sites on worker safety, productivity, and efficiency;
4. The utilisation of artificial intelligence and machine learning for enhancing construction workplace performance;
5. Human-computer interactions and augmented reality applications in construction organisational settings;
6. Data-driven decision making and analytics for improved construction management;
7. Challenges and opportunities in transitioning to a sustainable work environment in construction organisations;
8. Workforce implications and future trends in the era of digital transformation;
9. Safety, health, and well-being of the construction workforce;
10. Sustainable workforce training and development;
11. Work design and psychosocial risks in construction.



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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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