

Special Issue

Integrating Construction 4.0 Technologies into Sustainable Construction

Message from the Guest Editor

This Special Issue will explore how the integration of Construction 4.0 technologies, such as building information modelling (BIM), artificial intelligence (AI), the internet of things (IoT), robotics, blockchain, digital twins, and 3D printing, can drive sustainable practices across the construction lifecycle. It invites research and practical insights into innovative solutions that enhance resource efficiency, reduce environmental impacts, improve productivity, and promote social and economic sustainability in the built environment. Contributions may address technological adoption challenges, integration strategies, and case studies from diverse contexts, bridging the gap between digital transformation and sustainability goals in construction. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: Construction 4.0; Sustainable construction; Building information modelling (BIM); Artificial intelligence (AI); Internet of things (IoT); Robotics in construction; Blockchain in construction; Digital twins; Additive manufacturing/3D printing; Smart and resilient built environment.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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