

## Special Issue

# Advances in Digital Technologies Used in Architecture/Building Engineering and Construction Management

### Message from the Guest Editor

The Issue welcomes papers on the topics of below: the theoretical models incorporating time and cost data into BIM; building management and maintenance modeling; optimized solutions regarding Net-Zero Energy Buildings; bio-composites and recycled materials in construction with lower environmental impact; LCA to compare and analyze building materials; efficiency enhancing by robotics and automation; innovative materials for 3D printing; energy management systems for real-time monitoring; smart sensors and controls for better indoor air quality, lighting, and temperature regulation; robots for specific and complex construction tasks in adverse conditions; applicability of using drones for automated site inspection, surveys, and progress monitoring; visualization for architectural designs; safe working environment with AR headsets; self-healing materials; optimization employing ML algorithms; predictive maintenance schedule using AI; operational efficiency improve by digital twins; analyze safety data and predict the potential hazards; climate-resilient buildings; improve urban living conditions and efficiency by IoT and smart technologies.

We look forward to your contributions.

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### Guest Editor

Dr. Quddus Tushar

School of Engineering and Technology, Central Queensland University, Rockhampton, Queensland, Australia

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### Deadline for manuscript submissions

closed (30 April 2025)



## Sustainability

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*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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# About the Journal

## 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.

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

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