

Special Issue

Digital Workflows in AEC: From Conceptual Design to Constructed Reality

Message from the Guest Editors

This Special Issue will explore how emerging digital technologies are reshaping the architecture, engineering and construction sectors, bridging the gap between early design intent and real-world delivery.

We welcome high-quality original research, case studies and critical reviews addressing themes such as integrated BIM-enabled design processes; digital twins for lifecycle optimisation; parametric and generative design workflows; Scan-to-BIM and reality capture for existing-asset modelling; IoT-driven construction monitoring; the use of AI throughout the design and construction process, machine learning and automation in design coordination; computational fabrication and off-site manufacturing; immersive technologies including AR/VR/MR for collaborative planning; cloud-based project platforms and the digital handover of asset information for operation and maintenance. Submissions should highlight methodological innovations, tested frameworks or practical implementations. We also encourage industry-based case studies of technological implementations.

Guest Editors

Prof. Dr. David Oloke

Prof. Dr. David Heesom

Prof. Dr. Innocent Musonda

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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