



Digital Transformation Applications in Construction and Engineering

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Message from the Guest Editor

Dear Colleagues,

Successful achievement of increased quality and competitiveness in the construction field will depend on how digital transformation is applied to construction engineering in the future. Successful achievement of increased quality and competitiveness in the construction field will depend on how digital transformation is applied to construction engineering in the future.

The technologies of relevance include but are not limited to a) unmanned arial vehicles for surveying, quality assessment, and project progress monitoring; b) remote sensing methods such as light detection and ranging for practical surveying; c) point cloud-based surveying data creation; d) building information modeling (BIM)-based design and engineering; e) various sensing technologies to improve job site safety; f) artificial intelligence (AI)-based project risk detection; g) automated schedule monitoring and progress evaluation based on a digitalized planned schedule; h) text mining and natural language processing (NLP)-based project document review, evaluation, and compliance checking; i) digitalized design and engineering data-based project workflow reengineering.





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