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Digital Transformation in the Construction Industry: Latest Advances and Prospects

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Message from the Guest Editors

The main aim of this Special Issue is to stimulate theoretically and empirically informed discussions regarding the latest digital transformation advances and prospects in the construction sector. Specifically, the Special Issue calls for papers that are methodologically robust, with a strong theoretical grounding, containing either theoretical contributions or refinement, or the development and application of new theories relevant to this context. Whilst papers could consider or assess the impact of digitalization on project-, firm- or sector-level performance, work that specifically considers the role of supplier-level firms and how these are influenced or are impacted upon by digital transformations is also particularly encouraged. This Special Issue welcomes discussions of the latest digital innovations in construction and evaluations of their potential for improving construction project delivery or managerial practice. In addition, submissions for this Special Issue are encouraged to explore any undesirable or indirect/unanticipated consequences of the diffusion of digital innovations in the context of 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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