

Special Issue

Sustainable and Digital Construction Supply Chains

Message from the Guest Editors

The construction industry is undergoing a paradigm shift—from fragmented, project-centric delivery models to integrated, platform-based ecosystems that prioritize sustainability, digitalization, and operational excellence. This Special Issue, “Sustainable and Digital Construction Supply Chains”, brings together interdisciplinary research and practice to explore how modern technologies and systems thinking are transforming how we plan, build, and manage the built environment. We invite high-quality contributions addressing (but not limited to) the following themes: Platform Thinking and Construction Value Chains; Project Management and Resource Allocation; Digital Transformation in Construction; Sustainable Construction Supply Chains; Platform-Based Construction and Prefabrication; Governance, Policy, and Education. This Special Issue seeks to provide a comprehensive understanding of how emerging practices and technologies are reshaping the construction industry's supply chains—making them more sustainable, resilient, and digitally integrated. It aims to inform industry, academia, and policymakers on the future of construction as a service-oriented, platform-driven domain.

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About the Journal

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.

Editor-in-Chief

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