Special Issue

Advances in Construction Safety and Project Management

Message from the Guest Editors

The construction industry is undergoing rapid transformation through technological innovations in safety and project management. Digital solutions such as BIM, IoT, AI, and data analytics are reshaping how we identify, monitor, and mitigate risks while enhancing project delivery and efficiency. These technologies have become increasingly vital as the industry confronts complex challenges, including those revealed by recent global disruptions that demanded remote coordination and strengthened safety protocols. The integration of digital tools with traditional practices presents new opportunities to improve safety outcomes, optimize resources, and deliver projects more effectively. This Special Issue, titled “Advances in Construction Safety and Project Management”, invites original research studies, case studies, and review articles that examine innovative approaches and emerging technologies. Topics include risk assessment frameworks, smart safety monitoring, predictive analytics, digital twins, and solutions that enhance worker safety and project performance. We look forward to your submission.

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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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