



Emerging Technologies, Tools, and Methods for Enabling Safer, Healthier, and More Productive Work Settings in Construction Project Management

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Message from the Guest Editors

Dear Colleagues,

The construction industry has entered an era when the infiltration of innovative technologies, methods, and tools with traditional construction project management has led to opportunities towards a safer, healthier, and more productive work environment. For example, building information models (BIMs), augmented/virtual reality, cloud-based computing, and wearable technologies such as exoskeletons and exosuits. The aim of this Special Issue is to inform the community of the forefront of emerging technologies, tools, and methods in construction project management.

We invite submissions for this Special Issue, with topics including, but not limited to: safety–productivity balance; human-centric work settings; collaborative worker–machine construction; wearable technologies in construction; digital, robotic, and automated construction; off-site (modular) construction; physical, mental, and respiratory health; work-related musculoskeletal disorders (WMSDs); human-in-loop performance monitoring and modeling; innovative technologies for training and education.



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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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