Special Issue

Integrated Approaches to Occupational Safety in Construction: Managing Risks, Hazards, and Training for Safer Building Environments

Message from the Guest Editors

Construction sites remain among the most hazardous workplaces worldwide, characterized by dynamic environments, fragmented supply chains, and complex, multi-phase operations. This Special Issue focuses on integrated approaches to occupational safety that combine risk management, hazard identification, training and competency development, human factors, and digital transformation to create safer building environments. We welcome studies that bridge academic rigor and practical applicability across the project lifecycle—from planning and design to construction, commissioning, and maintenance. We particularly encourage contributions that demonstrate measurable safety improvements, present integrative frameworks, or showcase multi-disciplinary methods (engineering, management, ergonomics, psychology, and data science). Submissions that leverage Building Information Modeling (BIM), digital twins, sensor networks, and AI-driven analytics to predict, prevent, and mitigate incidents are especially welcome.

Guest Editors

Dr. Georgios C. Kafoutis
Dr. Panagiotis K. Marhavilas
Prof. Dr. Ioannis M. Dokas

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

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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

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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