

Special Issue

Safety Control and Risk Management in Construction: Current Evidence, Critical Gaps and Future Directions

Message from the Guest Editors

Construction remains one of the most hazardous industries globally. Despite decades of regulatory requirements and research efforts, challenges in safety control and risk management persist. For this Special Issue, we invite the submission of original research, systematic reviews, and case studies that advance the state of knowledge in construction safety and risk management. We welcome submissions addressing, but not limited to, emerging technologies for hazard identification, detection, and monitoring, human and organizational factors in safety performance, near-miss reporting and learning systems, safety climate measurement and intervention, risk quantification and decision-making under uncertainty, and the integration of digital tools such as BIM, AI, and wearable sensors into safety management systems. By consolidating current evidence, identifying critical gaps, and charting future research directions, this Special Issue aims to catalyze meaningful advances in how the construction industry identifies, manages, and ultimately reduces health and safety risk to its workforce.

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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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