

Research on Safety Control and Risk Management in Construction Engineering: Progress, Challenges and Strategies

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Message from the Guest Editors

The impact of risk control in the execution of engineering projects, approached from an integral prism, identifies vulnerabilities and threat elements that compromise the safety of the different phases of the work. Given the great complexity of risks that can threaten the construction system, it is necessary to provide tools that control and manage the management structures of the processes that will help to reduce the probability of risk and its consequences. In this context, it is important to make technological and strategic advances that guarantee an optimal safety management scenario in all phases of the engineering project.

Relevant topics to be addressed in this Special Issue include, but are not limited to, the following:

- Risk management in engineering works using BIM technology.
- Artificial intelligence in the management and control of safety in engineering works.
- New simulations and risk management models applied to engineering works.
- Advances in the integration of safety in engineering works.
- Application of scheduling technology to safety control in engineering works.
- The use of agile methodologies in risk management in engineering projects.



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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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