

Special Issue

Human Factor on Construction Safety

Message from the Guest Editors

This Special Issue addresses the critical role of human factors in enhancing safety on construction sites, where the use of cranes, scaffolding, and heavy machinery presents significant risks. Key human factors influencing construction safety include safety code violations, where expediency may lead workers and managers to bypass necessary regulations. Additionally, while technological advancements have mitigated some risks, miscalculations continue to result in severe structural issues. Inadequate training further compounds these challenges, leaving personnel unprepared to operate complex machinery safely. Oversights and lapses in judgment, often dismissed as minor errors, can lead to catastrophic outcomes, such as premature load releases that threaten the safety of others. The responsibility for ensuring a safe work environment lies with construction site owners and managers. Therefore, a thorough examination of these issues is essential for developing effective safety protocols and reducing accidents within the construction industry, which further highlights the importance of this Special Issue.

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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.

Editor-in-Chief

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