



Smart and Proactive Construction Safety Combined with AI, IoT, and Big Data

Guest Editors:

Prof. Dr. Jaewook Jeong

Department of Safety
Engineering, Seoul National
University of Science and
Technology (SeoulTech), Seoul,
Republic of Korea

Dr. Jaehyun Lee

Department of Architecture,
Honam University, Gwangju
62399, Republic of Korea

Dr. Jaemin Jeong

Department of Safety
Engineering, Seoul National
University of Science and
Technology (SeoulTech), Seoul
01811, Republic of Korea

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editors

This Special Issue aims to consolidate cutting-edge advancements in construction safety and management, encompassing various aspects including systems, policies, organizational structures, and technical innovations. We welcome research papers that contribute to the development of construction safety and management, addressing topics including, but not limited to:

- Construction safety merged with new technologies (BIM, AI, IoT, big data);
- Construction safety policy and regulation;
- Design for safety/prevention through design;
- Construction safety management;
- Accident analysis and investigation;
- Digital and smart technology for safety;
- Off-site construction for safety;
- Worker behavior and safety;
- Risk assessment;
- Other topics on health and safety in construction.

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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

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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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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