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New Technology of Green Intelligent Construction and Risk Assessment in Architectural Structures

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Message from the Guest Editors

With the advancement of computer technology and the social economy, the progress that has been made in digital, intelligent, and information technology offers boundless possibilities for shaping future green structures. It also presents a new direction for implementing disaster prevention and reduction measures in extreme events.

The objective of this Special Issue is to promote and present recent advancements in artificial intelligence, green and low-carbon technologies, disaster prevention and mitigation, as well as sustainable development in the field of engineering structures.

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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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