

## Deep Learning Models in Buildings

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### Message from the Guest Editors

This Special Issue explores the cutting-edge integration of deep learning technologies within the construction management and building sectors, emphasizing the transformative impact these technologies have on enhancing efficiency, sustainability and innovation in building design, construction and maintenance. By leveraging complex algorithms, these models provide unprecedented insights into optimizing building performance, energy usage and material selection, thereby supporting the construction industry's shift toward more sustainable and smart building solutions.

This focus on deep learning models showcases their potential to drive advancements in construction management practices, promoting not only environmental sustainability, but also operational efficiency and cost-effectiveness in the face of evolving industry challenges.

For further reading, please follow the link to the Special Issue Website at:

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# 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.

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