Special Issue

Artificial Intelligence in Architecture and Interior Design

Message from the Guest Editors

The aim of this Special Issue is to present developments in architecture and interior design from the perspective of both opportunities and challenges resulting from the far-reaching advances in the field of artificial intelligence (AI). From generative design to intelligent spatial management, from sustainability analysis to user experiences and preferences, AI is not only redefining the possibilities of creative tools but also proposing its own research paradigms. In addition, this Special Issue aims to gather cutting-edge research from global scholars, practitioners, and technical experts to explore how AI empowers design innovation and spatial creation, driving both industry practices and scientific research in architecture and interior design toward an intelligent future.

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Deadline for manuscript submissions

30 November 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/238267

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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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