

Special Issue

Smart Buildings: Integrating BIM and Artificial Intelligence for New Challenges of Design

Message from the Guest Editors

At the heart of the innovation process, when Artificial Intelligence (AI) intersects with Building Information Modeling (BIM), lies the creation of tomorrow's building: a giant with intelligence and sustainability. The development of intelligent architecture is one of the most exciting areas of innovation in civil engineering and architecture. Indeed, the integration of BIM and AI represents the starting point for a new design season in which new solutions are offered to meet the design needs of the future. Additionally, much interest is focused on modern devices and sensors capable of real-time monitoring, gathering vast amounts of data that could lead to the construction of digital copies of existing buildings.

Their application is not limited to building construction but covers the entire life cycle, with challenges and new opportunities for data management, predictive analysis, and building conservation. Areas of interest include but are not limited to, computation and data processing, machine learning, deep learning, the Internet of Things, and Digital Twin implementation for Smart Buildings.

Guest Editors

Dr. Lorusso Angelo

DISAMIS, University of Salerno, 84084 Fisciano, Italy

Dr. Domenico Santaniello

Department of Cultural Heritage Sciences (DISPAC), University of Salerno, Fisciano, SA, Italy

Dr. Sara Antinozzi

Department of Civil Engineering, Università degli Studi di Salerno, 84084 Fisciano, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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