

Special Issue

Building Information Modeling (BIM): Advance and Future Trends

Message from the Guest Editor

In recent years, the advancement of the BIM methodology has been evolving through standards, revisions, updates, and improvements, with the goal of finding the essential elements that will make it the perfect technology for the construction industry. With the idea of completing the concept of a virtual model and digital twin, BIM is conceived as a methodology that creates a unique model for each project, allowing for digital design simulations, with a focus on information, transparency, and collaboration. This Special Issue aims to identify the key pathways that the BIM methodology will need to follow in the future to address the challenges, needs, and uncertainties in the AEC sector.

Topics include but are not limited to:

- New perspectives and trends in BIM.
- Simulations with virtual models and digital twins through BIM.
- Virtual reality, augmented reality, mixed reality, and extended reality with BIM.
- Connectivity of the real world with BIM projects.
- Programming on BIM.
- Computational and data science applied to BIM.
- Big data applications, algorithms, and systems on BIM.
- AI, ML, and deep learning applied to BIM.
- Development of software for new solutions on BIM.

Guest Editor

Dr. Valentin Gomez-Jauregui

Research Group EgiCAD, School of Civil Engineering, Geographical Engineering and Graphic Expression Techniques, Universidad de Cantabria, Santander, Spain

Deadline for manuscript submissions

closed (10 June 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/185451

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

[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)