

Special Issue

Next-Generation Building Performance and Optimization

Message from the Guest Editor

The aim of this Special Issue is to advance both theoretical and practical knowledge on the ways in which emerging technologies can be embedded into the design and operation of buildings. Submissions may highlight methodological innovations, case studies of energy-efficient and low-carbon strategies, and cross-disciplinary collaborations connecting architecture, engineering, computer science, and environmental studies. By positioning building performance within the wider discourse of sustainability and cyber-physical systems, this Special Issue will provide a platform for envisioning next-generation approaches in which design intelligence and operational feedback converge to foster a more resilient and sustainable built environment. We welcome submissions that investigate, but are not limited to, the following thematic areas:

- building performance
- energy simulation
- digital twins
- IoT data integration
- green building
- smart buildings
- sustainable design
- performance-based design
- post-occupancy evaluation
- artificial intelligence
- data-driven prediction
- generative design
- computational design
- parametric modeling
- machine learning for built environment

Guest Editor

Prof. Ming Tang

School of Architecture and Interior Design, University of Cincinnati,
Cincinnati, OH 45221, USA

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

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About the Journal

Message from the Editor-in-Chief

The journal Architecture is an outstanding platform for new ideas and for reporting the outcomes of your research. The subjects sought are wide ranging and include design strategies, form, and technology. The need to be innovative in a rapidly changing profession and building environment make this journal the ideal place to publish. We are open to creativity and out-of-the-box thinking.

Editor-in-Chief

Prof. Dr. Avi Friedman

School of Architecture, McGill University, Montreal, QC H3A 2K6,
Canada

Author Benefits

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indexed within ESCI (Web of Science), Scopus, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 34.2 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.