

## Special Issue

# Shaping Architecture with Computation

### Message from the Guest Editors

Computational design stands at the forefront of architectural innovation, offering a transformative approach to advance architects' creativity, efficiency, and problem-solving with technologies such as computer modelling and visualisation combined with sophisticated computing algorithms. This Special Issue is dedicated to bringing together diverse experiences and discoveries from recent research and practice in computational design within architecture. It aims to share valuable insights and foster collaboration in this cutting-edge field of research and development. This Special Issue will encompass a broad spectrum of topics related to the research, development, and practical application of computational design in architectural and building design, as well as in urban planning. This Special Issue will mainly cover the following areas of focus:

- BIM-based computational design and application;
- Parametric modelling and design;
- Generative design;
- VR/AR/XR visualisation;
- Digital fabrication;
- Computational design simulation and analysis;
- Enhanced design collaboration;
- Enhanced prefabrication;
- AI-based design;
- Computation in urban planning and design;

---

### Guest Editors

Prof. Dr. Charlie Changfeng Fu

Prof. Dr. Yusuf Arayici

Dr. Efcharis Balodimou

Dr. Mohammad Saki

---

### Deadline for manuscript submissions

closed (31 August 2025)



## Architecture

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.4  
CiteScore 2.2



[mdpi.com/si/225040](https://mdpi.com/si/225040)

*Architecture*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[architecture@mdpi.com](mailto:architecture@mdpi.com)

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





# Architecture

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.4  
CiteScore 2.2



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



## 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

#### High Visibility:

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 18.9 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the second half of 2025).

#### Recognition of Reviewers:

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