

# Special Issue

## Selected Papers from the 20th International Conference on Computing in Civil and Building Engineering (ICCCBE 2024)

### Message from the Guest Editor

The 20th International Conference on Computing in Civil and Building Engineering (ICCCBE 2024), held in Montreal, highlighted the crucial role of computational methods in advancing construction operation planning. This Special Issue aims to consolidate cutting-edge research presented at the ICCCBE 2024. It will focus on innovative approaches to visualizing construction processes, optimizing workflows, and leveraging graphical models to address challenges in planning and execution. Submissions may include theoretical or applied research, case studies, or reviews that explore the intersection of digital tools and construction management. Topics covered in this Special Issue include, but are not limited to, the following:

- Visualization techniques for digital twins in construction planning
- Optimization algorithms for resource allocation and scheduling
- Graphical modelling for construction site monitoring and control
- The application of virtual and augmented reality in construction operation rehearsals
- Machine learning and AI-driven tools for predictive planning and visualization
- The integration of BIM and CIM for enhanced construction workflow management

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### Guest Editor

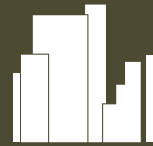
Prof. Dr. Adel Francis

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### Deadline for manuscript submissions

31 May 2026



## Buildings

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. David Arditi

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### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).