

## Special Issue

# Applications of Digital Modeling, 3D Modeling, and Simulation Visualization for Urban Development

### Message from the Guest Editors

In the face of rapid urbanization and the increasing complexity of modern cities, digital technologies have emerged as powerful tools to shape the future of urban development. This Special Issue seeks to bring together cutting-edge research and practical advancements that leverage digital modeling and simulation techniques to address urban planning, design, and management challenges. The integration of 3D modeling, simulation visualization, and digital tools enables professionals to analyze urban systems, optimize spatial layouts, and enhance decision-making processes. From smart city initiatives to sustainable infrastructure planning, these technologies foster innovative solutions that improve efficiency, inclusivity, and resilience in urban environments. This collection highlights contributions that demonstrate the transformative potential of digital modeling in fields such as urban design, transportation planning, environmental analysis, and stakeholder engagement. By exploring emerging methodologies and case studies, this Special Issue aims to inspire researchers, policymakers, and practitioners to embrace digital tools for creating smarter, more sustainable cities.

---

### Guest Editors

Prof. Dr. Valeria Ersilia Oniga

Prof. Dr. Costas Armenakis

Dr. Ana Maria Loghin

---

### Deadline for manuscript submissions

30 May 2026



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/226964](https://mdpi.com/si/226964)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto: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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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