Special Issue

Smart Technologies for Enhancing Urban Resilience

Message from the Guest Editors

Modern urban agglomerations are complex, nonlinear systems shaped by dynamic interactions among human mobility, vehicular movements, and logistics. To enhance urban resilience, innovative approaches leveraging Internet of Things (IoT) technologies and Artificial Intelligence (AI) are essential. IoT enables real-time monitoring, adaptive responses, and integrated management of urban infrastructures by aggregating diverse data streams, including sensor networks and GPS data. AI further enriches this process by analyzing spatial-temporal human mobility patterns, thus enhancing predictive capabilities and adaptive urban strategies. Overcoming technical challenges related to integrating heterogeneous data and understanding dynamic interaction mechanisms is critical for advancing smart city initiatives. This Special Issue thus focuses on exploring advancements in IoT and AI integration, aiming to develop resilient urban systems capable of proactively adapting to and recovering from disruptions, ultimately promoting sustainable urban development and improving residents' quality of life.

- urban resilience
- Internet of Things (IoT)
- artificial intelligence (AI)
- smart cities
- dynamic interactions

Guest Editors

Prof. Dr. Hao Sheng

State Key Laboratory of Virtual Reality Technology and Systems, School of Computer Science and Engineering, Beihang University, Beijing 100191, China

Prof. Dr. Wensheng Zhang

1. National Key Laboratory of Multimodal Artificial Intelligence System, Institute of Automation, Chinese Academy of Sciences, Beijing 100190, China
2. School of Computer Science and Cyber Engineering, Guangzhou University, Guangzhou 510006, China

Deadline for manuscript submissions

20 January 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/247572

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)