

Special Issue

Towards Sustainable and Intelligent Urban Ecosystems: Advanced IoT Architectures and Applications for Smart Cities

Message from the Guest Editor

This Special Issue aims to compile cutting-edge research and innovation at the intersection of IoT, data science, and urban management. We invite original research articles, reviews, case studies that explore novel architectures, models, and real-world implementations of IoT-enabled smart city solutions. Topics of interest include, but are not limited to:

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- Advanced IoT architectures and communication protocols for urban scalability.
- AI and ML for IoT data analytics, predictive modeling, and autonomous decision-making in urban systems.
- Cybersecurity, privacy-preserving techniques, and trusted frameworks for resilient smart city infrastructure.
- IoT-enabled sustainable urban management: smart energy grids, intelligent transportation systems, environmental monitoring, and water resource management.
- Digital twins, immersive technologies, and spatial computing for urban planning, simulation, and citizen engagement.
- Interoperability, standardization, and integration of heterogeneous IoT platforms and legacy urban systems.
- Case studies and pilot deployments demonstrating measurable improvements in efficiency, sustainability, resilience, and quality of life.

Guest Editor

Prof. Dr. Mohamed Essaaidi

École Nationale Supérieure d'Informatique et d'Analyse des Systèmes (ENSIAS), College of Engineering, Mohammed V University in Rabat, Rabat, Morocco

Deadline for manuscript submissions

20 August 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/273893

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

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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

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