

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

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