Special Issue

IoT-Enabled Applications for Smart Cities

Message from the Guest Editors

The rapid urbanization of modern cities has led to increasing demands for efficient infrastructure, sustainable resource management, and enhanced quality of life. Internet of Things (IoT)-enabled applications are playing a pivotal role in transforming urban centers into smart cities by integrating connected devices, real-time data analytics, and intelligent automation. IoT technology enables seamless communication between sensors, networks, and cloud platforms, allowing cities to optimize transportation, energy consumption, waste management, and public safety. In smart cities, IoT applications facilitate real-time monitoring of traffic flow, air quality, and energy usage, helping authorities make data-driven decisions. However, challenges such as data security, interoperability, and scalability must be addressed to ensure robust and sustainable IoT deployments. Edge computing and AI-driven analytics further enhance IoT systems by enabling faster processing and predictive maintenance. As cities continue to evolve, IoT-enabled solutions will be critical in fostering sustainable urbanization, improving citizen engagement, and creating resilient, future-ready urban ecosystems.

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