

IET Smart Cities

Call for Papers

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Special Issue on:

IoT Sensing, Applications, & Technologies for Smart Sustainable Cities

Sensing applications and IoT are indispensable for the construction of smart cities and provision of improved public services. Sensors act as the nerves of a smart city, enabling the collection of information that provides for intelligent decisions to be made, both in terms of future planning and immediate actuation. Internet of Things technologies provide the platform for implementing sensing applications, covering everything from embedded software and connectivity for edge nodes to data ingestion and analytics.

In this Special Issue, we focus on sensing and related IoT technology, used in smart cities to provide services in these major application areas: intelligent transport, smart buildings, utilities, environment, and health. Underlying technical contributions can focus on any aspect of the IoT sensing architecture but benefits should be clearly linked to relevant smart city applications. IoT topics of interest, include embedded OS, sensor interoperability and interfacing, local sensor node networks, wide area networks (e.g. LORA/5G), middleware for data handling and node management, green sensing and wireless networks, and data analytics. Contributions of a systems and applied research nature is preferred to largely theoretical work.

Solicited papers include (but not limited to) the following:

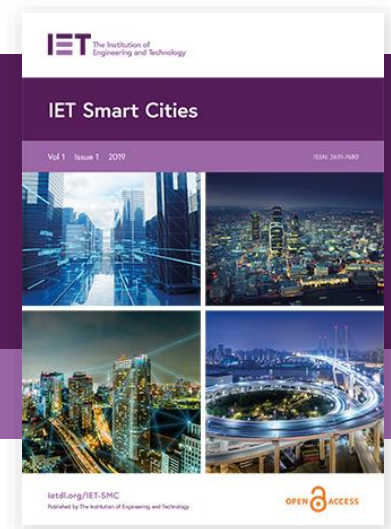
Technologies:

- Energy-efficient wireless sensor networks architecture
- Energy-efficient data routing, processing and storage strategies
- Energy-efficient harvesting/charging
- Energy-efficient sensing techniques
- Energy-efficient sensor data techniques
- Long-life sensor node deployment and topology control
- AI-based coordinating sensor devices
- AI-based scheduling sensor algorithms
- AI-based sensor resource orchestration
- Secured sensor communications and networking

- Testbed for massive IoT sensing
- AI and 5G based massive IoT technologies
- UAV aided IoT technologies

Sensing and Applications:

- Sensing for urban intelligent transport
- Sensing for urban homes and offices
- Sensing for localised urban utilities
- Sensing for urban environments
- Sensing for city residents' public health and wellbeing



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