

Special Session on
Internet of Things (IoT) Applications: Impact and Challenges in Sustainable Smart Cities
at
14th International Conference on Soft Computing and Pattern Recognition
(SoCPaR 2022)
on
World Wide Web
December 14-16, 2021
<https://www.mirlabs.net/socpar22/>

Objectives and Scope

The forecasted growth in the urban population in the next years represents a significant worldwide problem. According to the United Nations, by 2045 the urban population will exceed 6 billion people. In this scenario, the main priority of cities and urban regions is to facilitate research, technology transfer, and innovation. Cities and metropolitan regions must be managed intelligently due to the restrictions imposed by rising populations, environmental demands, energy, transportation, health and well-being, ageing, safety, and employment, among many other factors. The adoption of intelligent technology will help us overcome many barriers in our life. The current hottest research in the IoT technology domain is the use for global sustainability issues in collaboration with other technologies.

This special issue aims to identify and promote the most recent advances, methodologies, innovations, and practical applications of IoT technologies and the challenges in smartcities infrastructure. This issue intends to investigate how cities use IoT for sustainability in many areas. challenges In this special issue, we invite original and unpublished submissions discussing are seeking novel data analytics tools and methodologies, models and architectures used to gather insights and simulate performance, as well as action implementation models. This special issue will include qualitative and quantitative research contributions from academics, organizations, and industry in the broader field of AI and DL approaches in IoT infrastructure solutions for resource management, scalable operation, and big data processing security challenges.

Subtopics

The topics include, but are not limited to:

- IoT Mining and Analytics
- AI approaches using IoT
- IoT in Buildings and Infrastructures
- Smart city applications and challenges
- Secure technologies for smart transit and public safety

- ML and intelligent IoT-based localization
- IoT and ML in smart cities
- Data analytics for smart cities.
- Edge and cloud computing for smart city applications
- IoT and Security & Privacy
- Distributed Storage and Data Fusion
- Mobility and Localization Technologies
- IoT and Personal Data Protection
- IoT Interoperability
- IoT Management and Control Platforms
- IoT and Security & Privacy
- Distributed Storage and Data Fusion
- Mobility and Localization Technologies
- IoT and Personal Data Protection
- Sensor and Actuator Networks
- IoT for Transportation, healthcare, Mobility, and Traffic Control

Paper Publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (Indexed in SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago)
<https://www.springer.com/series/15179>
- Papers maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: <https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324>

Important Dates

Paper submission due: September 30, 2022
 Notification of paper acceptance: October 31, 2022
 Registration and Final manuscript due: November 10, 2022
 Conference: December 14-16, 2022

Special Session Chairs

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