



## Renewable Energy and Energy Storage in Smartgrid Perspective

Guest Editors:

**Dr. Padmanaban  
Sanjeevikumar**

**Dr. Umashankar  
Subramaniam**

**Dr. Dhafer Almkhles**

**Dr. Swaminathan Ganesan**

**Prof. Dr. Vigna K.  
Ramachandramurthy**

Deadline for manuscript  
submissions:  
**closed (30 August 2019)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue is intended as a forum for advancing research and for applying the most advanced control techniques in order to achieve accurate energy management systems, participate in demand response (D/R) events, participate in ancillary services like compensation of energy losses, F/V control and power flow control, the management of energy storage systems (ESS), the optimization of battery usage in electric vehicles (EV), maximize the self-consumption of available distributed energy resources, the trading of excess energy, the optimization of contracted energy profile, monitoring and data management, the transfer of energy consumption by tariff/load shifting, and the ability to deal with power outages. The expected outcomes will be a grid with self-resiliency, adaptive and accurate control to optimize the energy management system, and remote monitoring and prediction of battery performance.

Dr. Padmanaban Sanjeevikumar

Dr. Umashankar Subramaniam

Dr. Dhafer Almkhles

Dr. Swaminathan Ganesan

Prof. Dr. Vigna K. Ramachandramurthy

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Pierluigi Siano

Department of Management and Innovation Systems, University of Salerno, 84084 Salerno, Italy

## Message from the Editor-in-Chief

As urban environments continue to evolve, Smart Cities serves as a key platform for sharing innovative research that addresses the complexities of modern urban life. Our journal provides a space for interdisciplinary dialogue and knowledge exchange on the latest advancements in smart city technologies and practices. We prioritize research that not only pushes the boundaries of scientific understanding but also has practical implications for improving urban living, sustainability, and governance.

We welcome contributions from diverse fields that bring fresh perspectives to urban challenges, from smart infrastructure and IoT integration to data-driven decision-making and sustainable development. Through a combination of rigorous peer-review and rapid publication, we aim to disseminate impactful research that fosters the development of smarter, more resilient cities.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [Inspec](#), [AGRIS](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Urban Studies) / CiteScore - Q1 (Urban Studies)

## Contact Us

---

Smart Cities Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/smartcities](http://mdpi.com/journal/smartcities)  
[cities@mdpi.com](mailto:cities@mdpi.com)  
[X@MDPISmartCities](#)