



Smart Grid Analytics for Sustainability and Urbanization in Big Data

Guest Editors:

Dr. Sheraz Aslam

Department of Electrical
Engineering, Computer
Engineering, and Informatics,
Cyprus University of Technology,
Limassol 3036, Cyprus

sheraz.aslam@cut.ac.cy

Dr. Herodotos Herodotou

Department of Electrical
Engineering, Computer
Engineering, and Informatics,
Cyprus University of Technology,
Limassol (3036), Cyprus

herodotos.herodotou@cut.ac.cy

Dr. Nouman Ashraf

Telecommunications Software
and Systems Group (TSSG),
Waterford Institute of
Technology, Waterford X91 K0EK,
Ireland

nouman.ashraf@seecs.edu.pk

Deadline for manuscript
submissions:

31 December 2021

Message from the Guest Editors

IoT devices are found in various parts of the smart grid, such as smart appliances, smart meters, and substations. These IoT devices generate petabytes of data, which are known to be one of the most scalable properties of a smart grid. Without smart grid analytics, it is difficult to make efficient use of data and to make sustainable decisions related to smart grid operations. With the energy system of the developing world heading towards smart grids, there needs to be a forum for analytics that can collect and interpret data from multiple endpoints. Data analytics platforms can analyze data to produce invaluable results that lead to many advantages, such as operational efficiency and cost savings. However, the state-of-the-art approaches developed to achieve the above-mentioned advantages, sustainable operations of the smart grid, and the urbanization of big data are still immature. Most of these approaches have a high computational cost, as they employ conventional tools for data analytics. To overcome this challenge, novel and elegant approaches are required to cope with the big data produced from smart devices in the smart grid environment.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer-reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

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

High visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

Journal Rank: [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[@Sus_MDPI](https://twitter.com/Sus_MDPI)