sustainability

IMPACT FACTOR 3.3

CITESCORE 7.7

an Open Access Journal by MDPI

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, 30 Arch. Kyprianos Street, Limassol 3036, Cyprus

Dr. Herodotos Herodotou
Department of Electrical Engineering, Computer Engineering and Informatics, Cyprus University of Technology, 30 Arch. Kyprianos Street, 3036 Limassol, Cyprus

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

Deadline for manuscript submissions:
closed (28 February 2023)

mdpi.com/si/73158

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.

sustainability

IMPACT FACTOR 3.3

CITESCORE 7.7

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. *Sustainability* publishes original research articles, review 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, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
𝕏@Sus_MDPI