

Special Issue

Smart Grid Analytics for Sustainability and Urbanization in Big Data

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.

Guest Editors

Dr. Sheraz Aslam

Dr. Herodotos Herodotou

Dr. Nouman Ashraf

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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

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