Special Issue

Energy Big Data Analytics for Smart Grid Applications

Message from the Guest Editor

More than 80% of the world's energy needs are met with fossil fuels at the cost of high CO2 emissions that accelerate global warming. Smart systems make effective decisions by performing analyses based on big data. This Special Issue focuses on the following topics: Smart grid data analytics for power generation; Smart grid data analytics for power transmission; Smart grid data analytics for power consumption; Smart grid data analytics for electricity theft detection; Smart grid data analytics for power-sharing; Smart grid data analytics for demand-side management; Smart grid data analytics for supply-side management; Smart grid data analytics for smart metering data.

- Smart grid management;
- Smart grid data visualization;
- Renewable energy, battery storage system, electric vehicle;
- Power economics;
- Prediction and classification for smart grid applications;
- Data security and privacy for smart grid applications;
- Energy policies for power generation/transmission/consumption;
- Integration of a variety of power sources;
- Machine/deep learning applications for the smart grid;
- Cloud/fog/edge computing applications in smart grids

Guest Editor

Dr. Sheraz Aslam

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

Deadline for manuscript submissions

closed (30 August 2023)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/118673

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI