

Special Issue

Real-time Communications for Smart Grids and Industry

Message from the Guest Editors

Recently, the increasing use of micro power plants from distributed renewable sources has made energy production unpredictable, requiring innovative communication solutions. On the other hand, the recent availability of Real-Time Ethernet at the field level of factories, allows new scenarios in terms of services as prognostics or tolerance reduction. Modeling of a grid or of a production plant is a very complex task, although the availability of affordable and reliable embedded computing systems, which have become pervasive, is leading to the concept of cyber physical systems where any device (from the simplest to the most complex) can have its own counterpart in the digital domain, i.e., a so-called digital twin. However, distributed computing devices must cope with the temporal dynamics of the surrounding environment and typically must satisfy real-time requirements. This Special Issue aims at collecting the latest research addressing the challenges of real-time communications.

s

Guest Editors

Prof. Dr. Alessandra Flammini

Prof. Dr. Paolo Ferrari

Prof. Dr. Emiliano Sisinni

Deadline for manuscript submissions

closed (30 September 2019)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



mdpi.com/si/16954

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 8.3



[mdpi.com/journal/
energies](https://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)