



energies



an Open Access Journal by MDPI

Real-time Communications for Smart Grids and Industry

Guest Editors:

Prof. Dr. Alessandra Flammini

Department of Information
Engineering, University of
Brescia, 25121 Brescia, Italy

Prof. Dr. Paolo Ferrari

UNIBS-DIE, Department of
Information Engineering,
University of Brescia, 25123
Brescia, Italy

Prof. Dr. Emiliano Sisinni

Department of Information
Engineering, University of
Brescia, 42301-3023 Brescia, Italy

Deadline for manuscript
submissions:

closed (30 September 2019)

Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Alessandra Flammini

Prof. Dr. Paolo Ferrari

Prof. Dr. Emiliano Sisinni

Guest Editors



mdpi.com/si/16954

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Industrial Engineering, University
Nicolò Cusano, 00166 Roma,
Italy

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.

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)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)