

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.

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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.

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