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Real-time Communications for Smart Grids and Industry

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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.

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Special Issue



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Message from the Editor-in-Chief

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