

Special Issue

Sensor Networks for Dependable Monitoring of Critical Applications

Message from the Guest Editors

The Internet of Things represents the new frontier of industrialization.

By its definition, the IoT is a direct consumer technology while the Industrial IoT is its use in industrial environments, or what is called "Industry 4.0." Industry 4.0 (IIoT) creates opportunities for companies, production plants and also for entire sensor networks. Even more than in applications aimed at a common user, industrial applications are critical because it is necessary to guarantee high levels of reliability, performance, availability and security, of both the infrastructures and the data. Moreover, it is mandatory to guarantee a high level of safety for involved humans.

This Special Issue aims to gather innovative theoretical and practical contributions that highlight solutions with a high degree of dependability in critical applications of Industry 4.0 based on sensor networks, with particular reference to environmental monitoring, but not limited to it. Also within the scope of this Special Issue are research articles that present innovative and efficient techniques for assessing dependability in the reference context.

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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