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Special Issue Information

Dear Colleagues,

Researchers are in the pursuit of emerging technologies that enable human-centric or machine-centric networks to meet the evolving requirements (e.g., factory automation, fault diagnosis, fuel consumption monitoring, surveillance, etc.) in industries. Toward this goal, Smart Industrial Wireless Sensor Networks (SIWSNs) are identified as an essential technology. Particularly, on the one hand, with SIWSNs, data sensing, gathering and communication are performed intelligently by all kinds of industrial wireless sensors (e.g., photoelectric sensor, ultrasonic sensor, gas sensor, video sensor, etc.). Thus, various industrial data can be exchanged and managed autonomously and efficiently. On the other hand, due to the ease of deployment and flexibility of SIWSNs, the inherent drawbacks of wired industrial networks can be well overcome.

However, to utilize SIWSNs in a robust manner, there are a lot of tough issues to be addressed (e.g., coverage, localization, middleware, energy efficiency, quality of service, security, etc.). Moreover, with the recent adoption of cloud computing and big data technologies in industries, new issues might be posed for SIWSNs.

Therefore, this Special Issue aims to solicit high quality original technical or experimental papers which concern the current development or future challenge for SIWSNs. Review or survey papers will also be considered. Potential topics include, but are not limited to:

- Wireless access for SIWSNs
- Coverage for SIWSNs
- Localization for SIWSNs
- Data aggregation for SIWSNs
- Data management for SIWSNs
- Middleware for SIWSNs
- Energy efficiency for SIWSNs
- Quality of service for SIWSNs
- Security for SIWSNs
- Cloud computing for SIWSNs

- Big data for SIWSNs

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Guest Editors

Manuscript Submission Information

Manuscripts should be submitted online at www.mdpi.com (http://www.mdpi.com/) by registering (http://www.mdpi.com/user/register/) and logging in to this website (http://www.mdpi.com/user/login/). Once you are registered, click here to go to the submission form (http://www.mdpi.com/user/manuscripts/upload/?journal=sensors). Manuscripts can be submitted until the deadline. All papers will be peer-reviewed. Accepted papers will be published continuously in the journal (as soon as accepted) and will be listed together on the special issue website. Research articles, review articles as well as short communications are invited. For planned papers, a title and short abstract (about 100 words) can be sent to the Editorial Office for announcement on this website.

Submitted manuscripts should not have been published previously, nor be under consideration for publication elsewhere (except conference proceedings papers). All manuscripts are thoroughly refereed through a single-blind peer-review process. A guide for authors and other relevant information for submission of manuscripts is available on the Instructions for Authors (http://www.mdpi.com/journal/sensors/instructions) page. *Sensors* (http://www.mdpi.com/journal/sensors/) is an international peer-reviewed open access monthly journal published by MDPI.

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Keywords

- Industrial sensor networks
- Smartness
- Wireless
- Robustness
- Cloud computing
- Big data

Published Papers (12 papers)