

**IEEE Internet of Things Journal Special issue on**

**“Information-Centric Wireless Sensor Networking (ICWSN) for IoT”**

Information-Centric Networking (ICN), is a paradigm shift from a location-aware, address-based communication architecture to a location-independent, name-based, and connectionless communication architecture. ICN may appear as a promising candidate to solve many issues of the current Push/IP/Client-Server-based, connection-oriented rigid network architecture. Adopting the ICN architecture for resource-constrained wireless sensor-based IoT networks may further improve the data access mechanisms, reliability issues in case of mobility events, and high latency in case of multihop communication. However, integrating both technologies has not extensively been studied, especially for resource-constrained wireless sensor networks. The scope of this Special Issue is the examination of the challenges presented by the synergy between ICNs and wireless sensor-based IoT networks. Therefore, we invite researchers and experts to contribute original research articles as well as review articles about the research topics related to ICWSN.

It is intended that this Special Issue of the IEEE IoT Journal will show the state-of-the-art in ICWSNs. Original research contributions, tutorials and review papers are sought in ICWSN-related areas including (but not limited to):

- Architecture and protocol designs for ICWSN
- Cross-layer protocol designs for ICWSN
- Naming schemes for ICWSN
- Caching schemes for ICWSN
- Protocol Designs for cluster-based ICWSN
- Architecture and protocol designs of ICWSNs with various radios, such as LoRa, Wi-Fi, BLE, NB-IoT, etc.
- Distributed Computing over ICWSN
- Resources Orchestration over ICWSN
- Producer mobility in ICWSN
- Reliability, QoS support, sustainability, and energy efficiency in ICWSN
- Security and privacy in ICWSN
- Multimedia support in ICWSN
- Forwarding and Routing for ICWSN
- Test-Bed implementation and measurements ICWSN

**Schedule**

Submissions Deadline: November 15, 2020

Revision Due: March 15, 2021

Final Manuscript Due: April 30, 2021

First Reviews Due: January 31, 2021

Second Reviews Due/Notification: April 15, 2021

Publication Date: 2021

**Submission**

All original manuscripts or revisions to the IEEE IoT Journal must be submitted electronically through IEEE Manuscript Central, <http://mc.manuscriptcentral.com/iot>. Author guidelines and submission information can be found at <http://iee-iotj.org/>. The IEEE IoT journal encourages authors to suggest potential reviewers as part of the submission process, which might help to expedite the review of the manuscript. Please suggest only those without conflict of interest. Each submission must be classified by appropriate keywords.

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