

CALL FOR PAPERS**IEEE Internet of Things Journal Special Issue on
Internet of Things for Smart & Sensing Systems:
Issues, trends and applications**

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The sensing enterprise is a digital business innovation concept making Internet-of-Things, service-oriented architectures, and advanced human-computer interactions converge to a more agile, flexible, and proactive management of unexpected events in today’s global value networks. In essence, it concerns the adoption of future Internet technologies in virtual enterprises and their value networks. Translating the same concept to smart enterprises, and more generally to *smart systems* (smart manufacturing, smart cities, smart logistics, etc.), requires new capabilities by next-generation systems to perform sensing, modelling and interpretation of these signals from the real world so that they are more flexible and can be agilely reconfigured. Intuitively, a sensing system requires resources and machineries to be constantly monitored, configured and easily controlled by human operators. All these functions, and much more indeed, are now implemented by the so-called (Industrial) Internet of Things. With the advent of Industrial Internet of Things and the new cyber-physical system design paradigm, the number and diversity of systems that need to work together in the future enterprises have significantly increased. This trend highlights the need to shift the interoperability paradigm from the classic consideration of interoperating a pair of systems, towards interoperability as a capability to sense and perceive the exchanged messages, as well as to purposefully and socially act upon their perceptions. Such a shift could have important consequences on the future architecture design of these systems. The emergence of cloud-based technologies will also have a significant impact on the design and implementation of cyber-physical systems; using such novel technologies, collaborative engineering practises will increase globally which will enable a new generation of small-scale industrial organizations to function in an information-centric manner. The potential of such technologies in fostering a leaner and more agile approach towards engineering is very high. Engineers and engineering organizations no longer have to be restricted to the availability of advanced processing capabilities but can adopt a ‘pay as you go’ approach, which will enable them to access and use software resources for engineering activities from any remote location in the world. Specific topics of interests include, but not limited to the following:

- Smart Sensing Enterprises
- Industrial IoT Applications for Logistics, Enterprise, Smart and Sensing Systems
- Advances and Trends on IoT for Smart and Sensing Systems
- Advances in Enterprise Sensing, Networking, Control, and Decision-Making
- Smart and Sensing Systems Interoperability
- Integration and Management of Smart and Sensing Systems

Important dates:

Submission deadline: November 15th, 2017	Second reviews due/Notification: April 1 st , 2018
1st review due: February 1 st , 2018	Final manuscript due: May 1st, 2018
Revision due: March 1 st , 2018	Publication Date: 2018

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://iot.ieee.org/journal>. Each submitted manuscript will be sent to reviewers who will evaluate your work. 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 (e.g. who work at institutions other than your own and with whom you have no collaborative or other technical or family ties). Each submission must be classified by the author to select appropriate keywords for this journal.

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