

Special Issue on
**Enabling Collective Intelligence in Internet of Things:
System Integration and Information Processing from
Wireless Sensor Networks to Cloud Computing**

CALL FOR PAPERS

Wireless Sensor Networks (WSNs) have been identified as the key technology for the Internet of Things (IoT) and will shape the way people interact with the physical world. The integration of cloud computing with IoT (a.k.a. Cloud of Things) enables the collected information to be further processed by the extensive computing resources connected to the Internet. Besides, the data sensed by multiple WSNs could be integrated together, enabling a more efficient exploitation of the physical infrastructure.

Recently, a novel computing paradigm, Edge Computing, has been advocated to sit in the middle of WSNs and clouds. It aims to make the applications, data, and services not only available at the remote data centres but also available at the periphery of the network. To do this, Edge Computing enables analytics and knowledge generation to occur in close proximity to the data sources. This paradigm still retains the core advantages of using clouds as a support infrastructure, but it keeps the data and computation close to end users thus reducing the communication delay over the Internet, minimising the bandwidth burden by wisely deciding about which data needs to be sent to the cloud, and allowing a better control of trust and privacy issues.

This special issue solicits high quality original research papers that make significant contributions to the state of the art in “system integration and information processing of Internet of Things and its related computing paradigms” research area.

Potential topics include but are not limited to the following:

- ▶ The design of Cloud of Things and its applications
- ▶ Cloud to edge applications and challenges
- ▶ Software and tools for Smart cities to support clouds to edge intelligence
- ▶ Monitoring and orchestrating cloud to edge resources
- ▶ Privacy and security for clouds to edge
- ▶ Data Management for Internet of Things
- ▶ Big data analytics

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/js/ecii/>.

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Jose N. De Souza, Federal University of Ceará, Fortaleza, Brazil
neuman@ieee.org

Guest Editors

Wei Li, University of Sydney, New South Wales, Australia
liweili@it.usyd.edu.au

Houbing Song, West Virginia University, Montgomery, USA
h.song@ieee.org

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