

**SPECIAL ISSUE OF THE JOURNAL
“COMPUTERS & ELECTRICAL ENGINEERING”**

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Issue Title: Emerging Research in Internet of Things (IoT)

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Theme:

In the last few years, a stimulating idea has been fast emerging in the wireless scenario: the pervasive presence around us of a variety of "things" or "objects", such as terminals, devices, sensors, actuators, mobile phones, which, through unique addressing schemes, are able to interact with each other and cooperate with their neighboring "smart" components to form a smart space where users can easily enjoy a variety of services any time and in any place. This novel paradigm, named "The Internet of Things", a term encompassing the technical and cultural shift that is anticipated as society moves towards ubiquitous forms of computing in which every object is 'on' and connected in some way to the Internet. Despite the promising and beneficial prospects of such a world, however, the realization of smart space is still in its infancy and yet faces many technical challenges in architecture, protocols, applications, and security. How to implement this novel paradigm and how effective its introduction into citizens' every-day life is, still remains to be investigated. Key objectives of any R&D activity in the field are: device to device (D2D) wireless communications, efficient and effective circuit design, and full interoperability of "smart" devices.

In light of the challenge, this special issue will highlight the latest research results pertaining to smart spaces of Internet of Things. We welcome submissions from diverse fields including but not limited to wireless communication, wireless and mobile networks, mobile platforms, applications, and security.

Specific Topics:

Topics of interest include, but are not limited to, the following:

- Machine-to-machine and machine-to-network communications in the presence of wireless links
- Mobile wireless sensor networks
- Network management, distributed processing (e.g. access, scheduling, radio resource management, etc.), scalability, and cooperation issues in integrated wired-wireless scenarios for the Internet of Things
- Location and tracking through navigation sensors
- Low-power, intelligent and secure solutions for realization of Internet of Things
- Electromagnetic aspects related to the Internet of Things
- IoT applications and services
- Identification for IoT
- IoT system and network architecture
- Embedded systems and sensor networks
- Security, privacy, and safety technology for IoT
- Semantic technology for IoT

- Machine-to-machine communication/architecture/platform
- Modeling and prototype implementation of IoT systems

Journal Guide for Authors:

All submitted papers will be *peer-reviewed*. Accepted manuscripts must conform to the journal guide for Authors on:

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Important Deadlines

Special issue advertisement: Sep. 15, 2013

Submission of special issue manuscript: Mar. 15, 2014

Notification of special issue acceptance: Jun. 15, 2014

Submission of final journal version: Jul. 15, 2014

Special Issue Publication: Oct. 2014