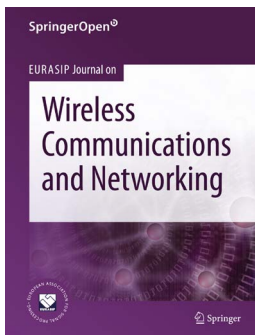


EURASIP Journal on Wireless Communications and Networking

Special Issue on
Internet of Things: Convergence of Sensing,
Networking, and Web Technologies

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Internet is quickly progressing towards the seamless interaction of objects, sensors and computing devices, usually indicated as the Internet of Things (IoT). Several examples exist where wireless sensor networks, mobile equipments, RFID tags, home appliances, cars and many other daily objects talk to each other, exchange information, generate aggregate knowledge and allow to quickly develop new advanced services for the final user. A comprehensive reference scenario are smart grids, i.e. electricity networks that can intelligently integrate the behaviour and actions of all objects connected in order to efficiently deliver sustainable, economic and secure electricity supplies using a two-way digital communication technology. The IoT requires powerful networking environments on one side and sophisticated data aggregation and processing technologies on the other. As sensing technologies perceive the world without human intervention, the amount of generated data is far beyond the one we are used to, where operators traditionally provide input data. Thus, the IoT is becoming a unifying concept where sensing, computing, and web technologies converge, interact and integrate each other.

Having this vision in mind, for IoT to become a reality, several technical, social, economical problems still need to be addressed. This special issue intends to investigate these open problems providing a comprehensive presentation of current findings, research directions and experimental set up. Papers are solicited on all related aspects, ranging from new algorithms/methodologies, system design and configuration to performance analyses and experimental studies.

Potential topics include, but are not limited to:

- ▶ P2P, overlay, and content distribution architectures
- ▶ Ad-hoc and sensor networks
- ▶ Energy-aware architectures, algorithms and protocols
- ▶ Modeling, analysis and performance evaluations
- ▶ RFID technologies and applications
- ▶ Middleware
- ▶ Smart grid technologies
- ▶ Cyber security for smart grid data and control data streams
- ▶ Real-time communication with smart objects
- ▶ Searching and discovering things and their services on the Web
- ▶ Applications and business opportunities
- ▶ Novel services and applications to facilitate environmental responsibility
- ▶ Emerging Internet of Things business models and process changes
- ▶ Interaction paradigms for everyday citizens
- ▶ Social impacts and consequences (security, privacy, opportunities and risks)

Submission Schedule

- ▶ **Manuscript Due:**
December 1, 2011
- ▶ **First Round of Reviews:**
March 1, 2012
- ▶ **Publication Date:**
June 1, 2012

Submission Instructions:

Before submission authors should carefully read over the Instructions for Authors, which are located at <http://jwcn.eurasipjournals.com/authors/instructions>. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at <http://jwcn.eurasipjournals.com/manuscript> according to the submission schedule. They should specify the manuscript as a submission to the “Special Issue on Internet of Things: Convergence of Sensing, Networking, and Web Technologies” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process.

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