Special Issue on
“Emerging Convergence of Sensing, Web Technologies, and Human in IoT”

Overview

The Internet is quickly heading toward the seamless integration of computing devices (e.g., sensors, smart objects, etc.), often recognized as the Internet of Things (IoT). Many daily objects, especially those small but necessary, connect with each other, exchange information, generate aggregated knowledge, and prompt the development of well-being for human beings. For this purpose, “sensing,” which requires powerful networking environments, and heterogeneous data aggregation and processing techniques, plays a rather important role when the scenario of IoT is being proposed. As sensing portion perceives the world without human intervention but with renders services for human, the amount of data and computation costs are far beyond expectation. Thus, a unifying concept where sensing, web technologies and human themselves converge, interact, and integrate with each other become a challenging issue in the coming years.

This special issue tends to tackle the phenomenon of IoT, especially from perspective of convergence. High quality and state-of-the-art ideas and results are welcome. In particular, the special issue is going to discuss issues, approaches and solutions to(towards) potential convergence of sensing, web technologies, and human beings. Original and research articles are solicited in all aspects of including theoretical studies, practical applications, new technology and experimental prototypes. All submitted papers will be peer-reviewed and selected on the basis of both their quality and their relevance to the theme of this special issue.

Topics of Interests

This special issue calls for original papers describing the latest developments, trends, and solutions. Topics of interests include, but are not limited to:

- Theoretical/Computational models
- Wireless, wired, and hybrid networks advanced infrastructure/framework/platform
- Intelligent and high performance data processing
- Scalability, integrity, and management
- Data migration/synchronization/redistribution
- Sensor networking technologies
- Multi-model/structure intelligence in IoT
- Sustainability, flexibility, and mobility
- Privacy, security, and trust issues
- HCI challenges in IoT
- Human-centered services provision in physical, cyber, and hybrid worlds
- Ubiquitous/Pervasive/Green sensing
- IoT-related applications, services, systems in Science, Engineering, Medicine, Healthcare, Finance, Business, Law, Education, Transportation, Retailing, Telecommunication

Submission Guidelines

Each paper for submission should be formatted according to the style and length limit of Ad Hoc & Sensor Wireless Networks. Please refer complete Author Guidelines at http://journals.sfu.ca/ahswn/index.php/ahswn. Note that published
papers and those currently under review by other journals or conferences are prohibited. Conference papers may only be submitted if the paper has been completely re-written (taken to mean more than 40%) and the author has cleared any necessary permissions with the copyright owner if it has been previously copyrighted. Each paper will be reviewed rigorously, and possibly in two rounds, i.e., minor/major revisions will undergo another round of review.

**Important Dates**
- **Paper submission:** June 30, 2014
- 1st round submission notification: Aug. 30, 2014
- 1st revision due: Sept. 30, 2014
- 2nd round review notification: Oct. 30, 2014
- 2nd revision due: Nov. 20, 2014
- Final acceptance: Dec. 20, 2014
- Publication: 3rd or 4th quarter, 2015 (tentative)

**Guest Editors**

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