IoT-SoS 2015

The 4th IEEE Workshop on the Internet of Things: Smart Objects and Services

(*in conjunction with IEEE WoWMoM 2015*)

Boston, Massachusetts – 14 June 2015

http://www.ieee-wowmom.org/iot-sos/2015/

Call for papers

The Internet of Things (IoT) is a novel paradigm which is shaping the evolution of the future Internet. According to the vision underlying the IoT, the next step in increasing the ubiquity of the Internet is to connect inanimate objects. By providing objects with embedded communication capabilities and a common addressing scheme, a highly distributed and ubiquitous network of seamlessly connected heterogeneous devices is formed, which can be fully integrated into the current Internet and mobile networks. Thus, it allows for the development of new intelligent services available anytime, anywhere, by anyone and anything.

When human interaction is absent from the system dynamics, the vision is also referred to as Machine-to-Machine (M2M) communications. Many applications with high social and business impact fall under the IoT/M2M umbrella, including personal healthcare, smart grids, smart city, surveillance, home automation, intelligent transportation, and it is strongly expected that new applications will emerge once the enabling technologies reach a stable state. Presently, two of the most important challenges for the widespread use of IoT/M2M technologies are:

1. Architectures, protocols and algorithms for efficient interconnection of smart objects.

2. The creation of value-added services enabled by the interconnection of smart objects.

The aim of this workshop is to bring together practitioners and researchers from both academia and industry to discuss recent advances in theory, application, and implementation of the IoT/M2M technologies, protocols, algorithms, and services. Topics of interest include but are not limited to:

- System architectures for IoT/M2M systems
- Protocols and mechanisms for seamless IoT/M2M communications
- Enabling standards and technologies for the IoT/M2M
- Service platforms for IoT/M2M applications
- Business models and processes for IoT/M2M applications
- Energy optimization and sustainable operation of IoT/M2M devices
- Access network issues; including mobility management, data dissemination and routing
- Modeling and simulation of large-scale IoT/M2M scenarios
- Experiences with experimental IoT/M2M system prototypes, pilots, and testbeds
- Dependability, security and privacy in the IoT/M2M context
- Performance, QoS and SLA in IoT/M2M scenarios
- Industrial use cases showing gaps to be filled by future research
- Novel and emerging IoT/M2M applications and case studies (eHealth, Smart Grids, Intelligent Transportation Systems, Smart Homes and Cities)

Extended version of the top papers from the workshop will be invited for possible publication in a special issue of the *International Journal of Distributed Sensor Networks*.

Submission instructions

All submissions must describe original research, not published or currently under review for another workshop, conference, or journal. Full papers should be restricted to 6 camera-ready pages (10pt font, double column, US letter size [8.5 × 11 inches] in IEEE format). Submission of a paper implies the willingness of at least one author to attend the workshop and present the paper. Accepted papers will be included in the main proceedings of IEEE WoWMoM 2014 and published by IEEE. Papers must be submitted via EDAS. All papers must include title, complete contact information of all authors, abstract and up to 5 keywords on the cover page. Further submission instructions can be found at the workshop web page at http://www.ieee-wowmom.org/iot-sos/2015/for-authors/