



IoT-SoS 2014

The 3rd IEEE Workshop on the Internet of Things: Smart Objects and Services

(in conjunction with IEEE WoWMoM 2014)

Sydney, Australia – 16 June 2014

<http://www.ieee-wowmom.org/iot-sos/2014>

Important dates

Paper submission: 14 March 2014
Notification: 19 April 2014
Camera ready: 7 May 2014

Workshop chairs

- > Andreas Reinhardt, *The University of New South Wales*
- > Mario Di Francesco, *Aalto University*

Steering committee

- > Claudio Cicconetti, *INTECS*
- > Enzo Mingozzi, *University of Pisa*
- > Jaudelice Cavalcante de Oliveira, *Drexel University*
- > Xiaohua Jia, *City University of Hong Kong*

TPC members

- > Ana Aguiar, *University of Porto*
- > Baris Atakan, *Izmir Institute of Technology*
- > Delphine Christin, *Technische Universität Darmstadt*
- > Hongwei Du, *Harbin Institute of Technology Shenzhen Graduate School*
- > Andrzej Duda, *Grenoble Institute of Technology*
- > Burhan Gulbahar, *Ozyegin University*
- > Yuan Guo, *Wilson, Ham & Holman*
- > Chuanhe Huang, *Wuhan University*
- > Antonio Iera, *University Mediterranea of Reggio Calabria*
- > Joarder Kamruzzaman, *Monash University*
- > Jussi Kangasharju, *University of Helsinki*
- > Olaf Landsiedel, *Chalmers University of Technology*
- > Jukka Nurminen, *Aalto University*
- > Kostas Pentikousis, *EICT*
- > Christian Renner, *University of Lübeck*
- > Nirmalya Roy, *University of Maryland Baltimore County*
- > Bala Srinivasan, *Monash University*
- > Damla Turgut, *University of Central Florida*
- > Dexiang Wang, *Juniper Networks*
- > Arkady Zaslavsky, *CSIRO*
- > Yan Zhang, *Simula Research Laboratory and University of Oslo*

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, after connecting people anytime and everywhere, 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, surveillance, home automation, intelligent transportation, and it is strongly expected that new applications will emerge once the enabling technologies reach a stable state.

At the moment, two of the most important challenges for the widespread use of IoT/M2M technologies are:

1. Architectures, protocols and algorithms for an efficient interconnection of smart objects, both between themselves and with the (future) Internet.
2. The creation of value-added services, especially open and interoperable, enabled by the interconnection of things / machines / smart objects, in such a way that they can be integrated with current and new business and development processes.

The aim of this workshop is to bring together practitioners and researchers from both academia and industry in order to have a forum for discussion and technical presentations on the recent advances in theory, application, and implementation of the IoT/M2M concepts: 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
- > Security and privacy in the IoT/M2M context
- > Industrial use cases showing gaps to be filled by future research
- > Novel and emerging IoT/M2M applications; including eHealth/mHealth, Smart Grids, Intelligent Transportation Systems, Smart Homes and Cities

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 at <https://edas.info/N16827>

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/2014/for-authors/>