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IoT-SoS 2017

Six IEEE International Workshop on the
*Internet of Things:
Smart Objects and Services*

*June 12, 2017. Macau, China
co-located with IEEE WoWMoM 2017*

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 allowing for the development of new intelligent services available anytime, anywhere, by anyone and anything. Such a vision is also becoming known under the name of Machine-to-Machine (M2M), where the absence of human interaction in the system dynamics is further emphasized.

Many applications with high social and business impact fall under the IoT/M2M umbrella, including personal healthcare, smart grid, surveillance, home automation, intelligent transportation, while it is expected that new ones will emerge once the enabling technologies reach a stable state. At the moment, three of the most important challenges are:

Architectures, protocols and algorithms for an efficient interconnection of smart objects, both between themselves and with the (future) Internet.

The creation of value-added services in cross-domain applications, 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.

Security, privacy and trust in the IoT applications, for ensuring that the provided services will protect the users' data, provide guarantees that no malicious users/devices will affect the system decisions and that the IoT applications will be secure and privacy-preserving by design.

Topics of interest include, but are not limited to:

System architectures for the IoT/M2M
Protocols and mechanisms for seamless IoT/M2M communications
Modeling and simulation of large-scale IoT/M2M scenarios
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
Integration IoT and Cloud and Fog computing
Emerging communication technologies for IoT, e.g. Low Power WAN and D2D
Protocols and architecture for Industrial IoT

Access network issues; including mobility management, data dissemination and routing
Testbeds for the IoT/M2M
Security, privacy and Trust in the IoT/M2M context
Experiences with experimental IoT/M2M system prototypes and pilots
Novel and emerging IoT/M2M applications; including eHealth/mHealth, Smart Grid/Smart - Metering, Intelligent Transportation Systems, Smart House/Neighborhood/Cities
Industrial use cases showing gaps to be filled by future research
Ethical issues in the IoT applications
Optimized and robust dynamic spectrum access on IoT

Submission instructions
All submissions must describe original research, not published or currently under review for another workshop, conference, or journal. Submission 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 2017 and published by IEEE.
You can find detailed submission instructions at **http://www.ing.unipi.it/iot-sos2017/submission.shtml**

Important dates
Manuscript Submission Due: **March 19, 2017 (11:59pm EST) ** EXTENDED ***
Notification of acceptance: **April 17, 2017**.
Final Manuscript Due: **May 1, 2017**.
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