

Call for Papers for *Selected Areas in Communications Symposium Internet of Things Track*

Scope and Motivation:

The Internet of Things track will focus on future technologies and research challenges associated to new applications and services bridging the physical and virtual worlds. The Internet of Things is a key enabler for the realization of new Smart-* realm (Smart Cities, Smart Buildings, Smart Factories, Smart Agriculture, Smart Mobility, ...) as it allows for the pervasive interaction with/between smart things leading to an effective integration of information into the digital world. These smart (mobile) things - which are instrumented with sensing, actuation, and interaction capabilities - have the means to exchange information and influence the real (physical) world entities and other actors of a smart -* eco-system in real time, forming a smart pervasive computing environment. The objective is to reach a global access to the services and information through this so-called Internet of Things through the efficient support for global communications.

The aim of the Internet of Things track is to bring together 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 Internet of Things concepts.

Main Topics of Interest:

The Internet of Things Track seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Future technologies bridging the physical and virtual worlds
- IoT Devices (Sensor, Actuators, Smart Objects, Vehicles, Smart Phones)
- Constrained Devices and Gateways for the IoT
- Energy and Power-Saving Technologies for the IoT
- Routing and Control Protocols for the IoT
- Mobility, Localization, and Management Aspects of the IoT
- Indexing, naming, and addressing the Internet of Things
- Information-Centric IoT Networking
- Machine to Machine (M2M) protocols
- Cloud computing, Distributed Storage and IoT internetworking
- Security, Trust, Privacy, Identity Management and Object Recognition in the IoT
- IoT Architectures and Middlewares
- IoT Resource Management and Access Control
- Intelligent data processing for the IoT
- Sensors Data management, Big Data and Data Mining, Data Fusion
- Distributed Sensing and Control,
- Web of Things
- Semantic Technologies for the IoT
- Embedded Web Services
- User-oriented, context-aware IoT services
- Semantic technologies for devices and services
- Lightweight structured data (EXI, JSON...)
- Novel concepts such as Crowd-sourcing
- New services through mobile computing and smart phones interaction
- Mobile integration of the Web of Things
- Experiences with Open Platforms and hardware within IoT
- Experiences and field trials of IoT applications.
- Building automation and smart buildings
- IoT in homes, building, factories, cities, smart grid, e-health, agriculture and environment, manufacturing, logistics, social networking, etc.

Sponsoring Technical Committees:

- Technical Committee on Information Infrastructure and Networking
- Internet of Things Technical sub-Committee