



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

Symposium Track Chair

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Submissions must be done through EDAS at <http://edas.info/N20929>

Scope and Motivation

Internet of Things (IoT) is leading to a new dimension of the Internet. IoT is driven by the integration and unification of all communication systems located around us. Thereby, the systems can provide ubiquitous communication & computing with the purpose of defining a new generation of services. 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.

This will address the issues regarding emerging communication requirements in terms of lightweight versions of IPv6-related protocols, emerging semantics, platforms, and application requirements. The impact in the IoT of the security and privacy requirements will be also taking into account since it is one of the major pending challenges for the IoT. Finally, the definition of new advanced architectures and models for the IoT integration with the Cloud Computing, and Big Data frameworks will be also considered.

Main Topics of Interest

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 and this symposium solicits original contributions in, but not limited to, the following topical areas:

- Architectures for the Internet of Things (IPv4, IPv6, 6LoWPAN, RPL, 6TONon-IP, 6lo,..)
- Future technologies bridging the physical and virtual worlds
- End to End / Machine to Machine (M2M) protocols for IoT
- Cloud computing and IoT
- Big Data and IoT insight
- Middleware architectures & M2M Platforms
- Web of Things and Semantic technologies for devices and services
- Experiences with Open Platforms and hardware within IoT
- Crowd-sourcing and opportunistic IoT
- User-oriented, context-aware IoT services
- Security, Trust, Privacy and Identity in the IoT
- Efficient resource management (water, energy...) based on 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
- Building automation and smart buildings based
- new Smart-*: Home, factories, cities, grid, agriculture, environment, harbors, logistic, etc
- IoT, Society and Social networks

Biography of Track Chair

Antonio F. SKARMETA received the M.S. degree in Computer Science from the University of Granada and B.S. (Hons.) and the Ph.D. degrees in Computer Science from the University of Murcia Spain. Since 1993 he is Professor at the same department and University. Antonio F. Skarmeta has work on different research projects in the national and international area, like SWIFT, IoT6 and Openlab. His main interested is in the integration of security services at different layers like networking, management and Internet of Things. He is associate editor of the IEEE SMC-Part B and reviewer of several international journals. He has published over 90 international papers and being member of several program committees.