Scope and Topics of Interest

Internet of Things (IoT) is one of the key evolving areas in the communication domains during the last years, it covers from the initial steps about introducing Internet capacity to end-devices (consumer electronics, sensors, actuators, machines ...) to a new generation of protocols, communications media and technologies to make it much more scalable, affordable, secure and reliable to support the emerging markets and demand for key areas such as smart cities, large scale utility networks, active health and connected cars.

IoT addresses multiple layers as part of the communications stack. First, in the physical and medium domain the innovations around co-existence, radio regulations for white spaces / subGhz, new medium layer technologies to cover wide areas with low power solutions, evolutions in personal areas network technologies to make it more user-friendly, power efficient, scalable. Second, Internet / network layer with innovations around IPv6 with its adoption to new protocols such as Low Power Wide Areas Networks (LPWAN) covering from community open technologies to the emerging 3GPP driven technologies such as Narrow Band. These emerging mediums are requiring innovations in end-to-end security, access control, resources discovery, Future Internet experimentation etc. Third, reliable end-to-end protocols for data exchange, interoperability protocols, middleware, semantics, and global standards such as OMA, IEEE, 3GPP, ETSI etc. Fourth, innovation in IoT platforms, architectures, new paradigms such as edge computing, personal networks deployments, data management, big data, analytics, behaviors detection / analysis, privacy, identity, etc. Finally, key disruption in the development of smart ecosystems / environments with innovative applications for smart wearables, smart factories (industry 4.0 / factory of the future), smart cities (more open and agile smart cities), smart homes (more personalized and interoperable), healthcare / wellbeing (ambient assisted living), connected car (intelligent transport systems), and efficient use of resources (energy, water, etc.).

The aim of the Internet of Things (IoT) Track of the Symposium on Selected Areas on Communications is to provide a forum that brings together scientists and researchers from all over the world to present their cutting-edge innovations in all aspects of the field. Papers on practical applications and R&D results from industry and academic/industrial collaborations are particularly encouraged.

To ensure complete coverage of the advances in this field, the IoT Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

- IPv6 and other scalable addressing / identification mechanisms for Internet of Things
- Future Internet Research Experimentation for Internet of Things
- Innovative protocols for the Internet of Things (all the layers)
- New communications mediums for Low Power Wide Area Networks
• Networks co-existence and heterogeneity support
• Machine to Machine (M2M) and cellular-based protocols for Internet of Things
• Cloud computing, Edge Computing / Fog Computing integration with Internet of Things
• Software Defined Networks and Personal Networks deployment in Internet of Things
• Platforms, middlewares and experiences with Open Source in Internet of Things
• Big Data, data analytics, stream processing and scalable data management
• Linked and Open Data in Internet of Things
• Co-creation, design thinking and living labs in Internet of Things
• Privacy and data ownership in Internet of Things
• Web of Things, Everything as a Service and Webservices (W3C) in Internet of Things
• Crowdsensing, floating content and opportunistic Internet of Things
• Security, Trust and Identity management in Internet of Things
• Mobility, Localization and context-adaptive Internet of Things
• Context-aware and/or social Internet of Things
• Applications and Solutions for Factories, Smart Cities, Wearables, Homes, Energy, Water, Agriculture…
• Large Scale Experiences / Pilots and demonstrators
• Standardization

Submission Guidelines
The IEEE ICC 2018 website provides full instructions on how to submit papers & the paper format.

You will select the desired symposium/track when submitting.

The paper submission deadline is October 15, 2017.

Only PDF files will be accepted for the review process and all submissions must be done through EDAS at http://edas.info/