

**CALL FOR PAPERS AND PROPOSALS**  
**2016 IEEE 3<sup>rd</sup> World Forum on Internet of Things (WF-IoT)**  
**12-14 December 2016 — Reston, USA**  
**<http://sites.ieee.org/wf-iot-2016/>**

## **IoT: Smart Innovation for Vibrant Ecosystems**

The 2016 IEEE 3<sup>rd</sup> World Forum on Internet of Things (WF-IoT) seeks contributions on how to nurture and cultivate IoT technologies and applications for the benefit of society. Original papers are solicited in, but are not limited to, the following topics:

### **IoT Enabling Technologies**

- 5G Networks and IoT
- Software Defined Network (SDN) and IoT
- Sensor and Actuator Networks
- Ultra-low power IoT Technologies and Embedded Systems Architectures
- Wearables, Body Sensor Networks, Smart Portable Devices
- Design Space Exploration Techniques for IoT Devices and Systems
- Heterogeneous Networks, Web of Things, Web of Everything
- IoT Protocols (IPv6, 6LoWPAN, RPL, 6TiSCH, W3C)
- Named Data Networking for IoT
- Internet of Nano Things
- Sensors Data Management, IoT Mining and Analytics
- Adaptive Systems and Models at Runtime
- Distributed Storage, Data Fusion
- Routing and Control Protocols
- Resource Management, Access Control
- Mobility, Localization and Management Aspects
- Identity Management and Object Recognition
- Localization Technologies
- Edge Computing, Fog Computing and IoT
- Machine to Machine (M2M)/Devices-to-Devices communications and IoT
- Industrial IoT and Factory of Things and Internet of Things

### **IoT Application and Services**

- Cyber-physical systems, Context Awareness, Situation Awareness, Ambient Intelligence
- Collaborative Applications and Systems
- Service Experiences and Analysis
- Smart Cities, Smart Public Places, Smart Home/Building Automation
- e-Health, e-Wellness, Automotive, Intelligent Transport
- Smart Grid, Energy Management
- Consumer Electronics, Assisted Living, Rural Services and Production
- Industrial IoT Service Creation and Management Aspects
- Crowd-sensing, human centric sensing
- Big data and IoT Data Analytics
- Internet Applications Naming and Identifiers
- Semantic Technologies, Collective Intelligence
- Cognitive and Reasoning about Things and Smart Objects
- Mobile Cloud Computing (MCC) and IoT
- Horizontal application development for IoT
- Design principals and best practices for IoT application development
- IoT Multimedia

### **IoT Societal Impacts**

- Human Role in the IoT, Social Aspects and Services
- Value Chain Analysis and Evolution Aspects
- New Human-Device Interactions for IoT, Do-It-Yourself
- Social Models and Networks
- Green IoT: Sustainable Design and Technologies

- Urban Dynamics and crowdsourcing services
- Metrics, Measurements, and Evaluation of IoT Sustainability and ROI

### Security and Privacy for Internet of Things

- IoT Privacy and Security Concerns
- Identification and authentication issues
- Wireless sensor network for IoT security
- Intrusion detection in IoT
- Cryptography, key management and authorization for IoT
- Physical/MAC/Network Attacks in Internet of Things
- Cross-layer attacks in IoT
- Security with QoS optimization in IoT
- Privacy based channel access in IoT
- IoT forensic science
- Big data and information integrity in IoT
- Communication security in IoT
- Security standards in IoT

### IoT Experimental Results and Deployment Scenarios

- Closing the Gap between Research and Implementation
- Experimental prototypes, Test-Bed and Field Trial Experiences
- Multi-Objective IoT System Modeling and Analysis—Performance, Energy, Reliability, Robustness
- IoT Interconnections Analysis—QoS, Scalability, Performance, Interference
- Real case deployment scenarios and results
- IoT deployment at Government and ISPs
- IoT deployment on agriculture, retails, smart cities, etc.
- IoT Interconnections among ISPs Analysis—QoS, Scalability, Performance, Interference
- Gaps Analysis for real deployment
- IoT and Future Internet architectures
- Standardization and Regulation

### Paper Submissions and Publications

The 3<sup>rd</sup> IEEE World Forum on Internet of Things (WF-IoT 2016) solicits two types of submissions.

**Full papers** describing original research. Suggested size is four pages; papers up to six pages will be accepted. Papers will be fully peer reviewed and, if accepted, included in conference proceedings and will be submitted to the Xplore Digital Library. Extended versions of selected papers may be considered for publication in IEEE IoT Journal.

**Extended abstracts** describing emerging results of new research areas or relevant topics from an industrial point of view, not to exceed two pages.

### Important Dates for Paper Submissions

Manuscripts Due: **June 15, 2016**

Acceptance Notification: September 30, 2016

Camera-Ready Submission: October 31, 2016

Papers must be submitted electronically: <https://edas.info/22145>

### Contacts for Papers:

**TPC General Chair:** Prof. Antonio Skarmeta, University of Murcia, Spain [skarmeta@um.es](mailto:skarmeta@um.es)

**TPC Co-Chairs:** Prof. Philip Hall, The University of Melbourne, Australia [philip.hall@ieee.org](mailto:philip.hall@ieee.org) and Dr. Yu Rongshan, Institute for Infocomm Research, Singapore [rongshanyu@ieee.org](mailto:rongshanyu@ieee.org)

**Website:** <http://www.ieee-wf-iot.org/>

### Tutorial, Workshops and Special Session Submissions

Tutorial proposals should contain an abstract, scope, intended audience, objectives, prior history, an outline, the biographical sketch of presenters and any other information that may assist in making decisions. Special Sessions should complement the regular program with new and emerging topics of interest. Proposals must be in the form of a single PDF file not to exceed four pages.

### Important Dates for Tutorial, Doctoral Symposia and Special Session Submissions

Proposals due Tutorials: **July 25, 2016**

Proposals due Special Session and Workshops: **April 30, 2016**

Proposals must be submitted electronically: <https://edas.info/22145>

**Contacts for Tutorials and Doctoral Symposium:**

Prof. Hausi Müller, University of Victoria, Canada [hausi@cs.uvic.ca](mailto:hausi@cs.uvic.ca)

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Prof. Vincenzo Piuri, University of Milan, Italy [vincenzo.piuri@unimi.it](mailto:vincenzo.piuri@unimi.it)

**Contacts for Special Sessions and Workshops:**

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**Industry Forum Panel Sessions Submissions**

The 2016 IEEE 3<sup>rd</sup> World Forum on Internet of Things (WF-IoT) will be hosting Industry Forum Panel Sessions. Presentation in Industrial Forum will be panelist based and panel presentation material will not be published in conference proceedings but will be available in the conference web site. Industrial Forum Panel proposal should contain an abstract, scope, intended audience, objectives, prior history, an outline, the biographical sketch of presenters and any other information that may assist in making decisions.

**Important Dates for Industry Panel Proposal**

Proposal deadline: **July 25 2016**

Proposals must be submitted electronically: <https://edas.info/22145>

**Contact for Industry panels:**

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Yoshihiro Ohba, Toshiba, [yoshihiro.ohba@toshiba.co.jp](mailto:yoshihiro.ohba@toshiba.co.jp)

**Conference Organization**

General Chair: Geoff Mulligan, Founder & President, IPSO Alliance, USA

Co-Chair: Latif Ladid, Research Fellow, SnT, University of Luxembourg, Luxembourg

Former Chair: Dr. Roberto Minerva, IEEE IoT Initiative Chair, Telecom Italia, Italy

Co-Chair: Prof. Vincenzo Piuri, University of Milan, Italy

Co-Chair: Dr. Katrin Reitsma, Motorola Solutions, USA,

Industrial Co-Chair: Kazunori Iwasa, Fujitsu, Japan

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