IEEE/IFIP WONS 2019

15th Annual Conference on Wireless On-demand Network Systems and Services 22-24 January 2019, Wengen, Switzerland

http://2019.wons-conference.org/

Wireless on-demand network systems and services have become pivotal in shaping our future networked world. Starting as a niche application over Wi-Fi, they can now be found in mainstream technologies like Bluetooth LE, LTE Direct and Wireless LANs, and have become the comerstone of upcoming networking paradigms including mesh and sensor networks, the Intemet of Things, doud networks, vehicular networks, disruption tolerant and opportunistic networks, underwater and intra-body networks.

The challenges of this exciting research field are numerous. Examples include how to make smart use of these novel technologies when multiple technologies or a mix of permanent services and on-demand networking opportunities are available to a network node, how to provide robust services in highly dynamic environments, how to efficiently employ and operate heavily resource-constrained devices, and how to develop robust and lightweight algorithms for self-organization and adaptation. Finally, there are many application-specific challenges.

WONS, now in its fifteenth edition, is a high quality forum to address these challenges. WONS aims to provide a global platform for rich interactions between experts in their fields, discussing innovative contributions in a stimulating environment.

This announcement solicits original contributions of high-quality research providing novel insights on all aspects of wireless on-demand networks and systems; from protocol and network design, modelling, performance evaluation, energy efficiency, QoS models and mechanisms, practical implementations, service level aspects, application use-cases, to the integration of multiple wireless network technologies.

Extended versions of selected top papers will be considered for publication on a fast track on special issues in Elsevier Computer Communications (COMCOM) journal.

Topics of interest comprise, but are not limited to:

- Cognitive radio networks Cross-layer design
- Energy-efficient protocols and power management
- · Heterogeneous wireless networks
- Implementations and testbeds
- Integration and co-existence of heterogeneous technologies
- Intra-body and biomedical on-demand systems
 Green wireless networks
- Localization and mobility management MAC and advanced PHY technologies Middleware aspects
- Mobile peer-to-peer systems

- Mobile computing and services Modeling and optimization Network management
- New architectures for on-demand wireless systems
- Novel applications and services
- Opportunistic, delay-tolerant, and disseminationbased protocols
- Performance evaluation through simulations and experiments
- Pervasive and ubiquitous computing Security, privacy, and trust
- Social and economic aspects
- Underwater on-demand networked systems
- Architecture and protocols for the Internet of Things

Manuscript submissions:

Authors are invited to submit double-column long papers (up to 8 pages) and short papers (up to 4 pages) as a PDF file in IEEE format with a font size no smaller than 10pt. All paper submissions must be written in English. The mandatory IEEE template in Microsoft Word and LaTeX format can be found at the IEEE templates page. All submitted manuscripts must be at least 3 pages in length. Short papers should present future research directions and ongoing work with visionary, innovative ideas; accepted short papers will populate poster sessions at the conference and will be included in the conference proceedings. Submitted papers must not have been published elsewhere and must not be currently under review by another conference or journal. Submission implies the willingness of at least one of the authors to register and present the paper. All submitted papers will be peer-reviewed by at leaast 3 independent experts in the field following a single blind process. Accepted and presented papers will appear in the conference proceedings published in the IFIP Open Access Digital Library and will also be submitted to the IEEE Xplore Digital Library as well as other Abstracting and Indexing (A&I) database.

Manuscripts will be collected via ConfTool. You can submit your contribution using the following link: https://www.conftool.com/wons2019/

Further submission instructions are available at: http://2019.wons-conference.org/



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Important Dates:

31 October 2018: Paper submission deadline

15 December 2018: Acceptance notification

31 December 2018: Camera ready