IEEE/IFIP WONS 2018

14ᵗʰ Annual Conference on Wireless On-demand Network Systems and Services

6-8 February 2018   ·   Isola 2000, France

http://2018.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 cornerstone of upcoming networking paradigms including mesh and sensor networks, the Internet of Things, cloud 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 oppor-tunities 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 thirteenth 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, modeling, performance evaluation, energy efficiency, QoS models and mechanisms, practical implementations, service level aspects, application use-cases, to the integration of multiple wireless network technologies.

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 dissemination-based protocols
- Performance evaluation through simulations and experiments
- Pervasive and ubiquitous computing
- Security, privacy, and trust
- Social and economic aspects
- Underwater on-demand networked systems

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. Accepted papers will appear in the conference proceedings and will be submitted to the IEEE Xplore Digital Library.

Further submission instructions are published on the conference web site http://2018.wons-conference.org/

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Important Dates:

1 December 2017:
Paper submission deadline (extended)

7 January 2018:
Author notifications sent

21 January 2018:
Camera ready version due