

The 13th IEEE International Workshop on Wireless Local Networks (WLNs)

Held in conjunction with

The 38th IEEE Conference on Local Computer Networks (LCN)

21-24 October, 2013, Citigate Central, Sydney, Australia

WLNs Phase Shift in Next Generation Networks

Wireless Local Networks (WLNs) play a key role in a plethora of domains. From smart phones to smart cities, applications spanning our engaging planet boost the impact of IT on our daily lives. WLNs present many unique and dynamic challenges, yet their utilization is on a rapid rise. As a technology, the combination of relatively low costs and ease of deployment has led many communities to rely on local wireless infrastructures. Those encompassing the Internet of Things (IoT), Radio Frequency Identification (RFID) networks, Clouds of Sensing (CoS), and Software Defined Networks (SDNs), which form a significant evolution towards Next Generation Networks (NGNs) in its global scope. However, the rapid pace of their deployment and utilization have rarely adequately addressed up front caveats; including planning and ongoing support requirements. This can manifest in degraded levels of service and significant sustainability exposures, dramatically increasing failure rates of user adoption and seamless usage. In its 13th year, the WLN workshop will focus on how such wireless networks can be resilient, while maintaining the promised high levels of service quality in NGNs. We consider design and implementation dimensions in WLNs that will enable change phase towards NGNs and demonstrate added utility in providing sustainable global communication networks. WLN this year will feature multiple special sessions with the following list of non-exclusive topics of interest:

- RFID networks in the IoT.
 - ◆ Planning of RFID networks.
 - ◆ RFID scalable anti-collision protocols.
 - ◆ Localization of RFID-tagged objects.
- Software Defined Networks (SDN) in Dynamically Changing Environments.
 - ◆ Integration and coexistence issues towards NGNs.
 - ◆ New paradigms like Information Centric Networks (ICN) and their relation with SDN.
 - ◆ Practical experiments on SDN based testbeds.
- QoS constrained Clouds of sensors over WLNs: Do they scale?
 - ◆ Wireless multihop networks, including mesh, ad hoc and sensor networks.
 - ◆ Locally distributed sensor networks towards a global CoS.
 - ◆ Protocol design, including cross-layer and opportunistic approaches.
- Resource management in M2M communications.
 - ◆ Resource management functionalities (CAC, reservation, scheduling, etc.)
 - ◆ Cognitive radios and dynamic spectrum assignments.
 - ◆ Performance evaluation, including analytical and simulation approaches.

Important Dates

Paper Submission	May 27 th , 2013
Notification of acceptance	June 30 th , 2013
Camera-ready copy due	July 30 th , 2013

Submission Guidelines

We seek original contributions that have neither been previously published or currently under review. Authors can submit in any of the aforementioned special sessions a *full paper* (up to 8 pages) that describes complete works in a self-contained manner with the intent to give an oral presentation.

All accepted submissions will be published in the LCN'13 proceedings and the *ieeexplore* portal. Submission details can be found at <http://www.cs.queensu.ca/wln13>

Workshop Co-chairs

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