Call for Papers

2nd International Workshop on Smart Spectrum (IWSS) in conjunction with IEEE WCNC 2016

Smart Spectrum Utilization Based on Spectrum Measurement and Statistical Modeling

April 3, 2016, Doha, Qatar

Scope: An essential feature of future wireless communications is efficient, flexible and dynamic spectrum utilization. A wireless network taking advantage of spectrum measurements is a new, promising approach among conventional dynamic spectrum access techniques capable of delivering such smart spectrum utilization. By analyzing real world spectrum utilization, it is possible to obtain information on the actual spectrum usage statistics which can be used to develop spectrum usage models that can enhance the performance of estimating and predicting the spectrum status, as well as improving spectrum resource management, sharing and allocation.

IEEE WCNC 2016 International Workshop on Smart Spectrum aims to bring together researchers, industry practitioners as well as members of standardization bodies and government to meet and exchange ideas on recent research and future directions for smart spectrum utilization. The technical discussion will be focused on wireless network technology based on spectrum measurements, spectrum utilization modeling, and their applications for dynamic spectrum access. The topics of the workshop include, but are not limited to:

- Spectrum measurement techniques (wideband, long term, and wide area measurements)
- Spectrum measurement campaigns and system prototyping
- Sensor networks for spectrum measurement
- Spectrum utilization database techniques
- Multidimensional spectrum utilization models
- Statistical modeling of radio environment
- Radio propagation modeling for spectrum sharing
- Cognitive radio networks and dynamic spectrum access
- Spectrum sensing techniques based on statistical modeling
- MAC layer access protocol design based on statistical modeling

Best papers will be included (in extended version) in a journal special issue to be published by Hindawi in the Mobile Information Systems journal ("Special Issue on Smart Spectrum Technologies for Mobile Information Systems") in July 2016 (tentative).

Author guidelines:
Authors should follow the WCNC submission guidelines available at **http://wcnc2016.ieee-wcnc.org/authors** when preparing their contributions (maximum paper length: 6 pages including figures). Papers are submitted via EDAS conference management system: **https://edas.info/newPaper.php?c=21591**

Important dates:
Paper submission: **November 23, 2015 (extended)**
Notification of acceptance: December 28, 2015 (extended)
Camera ready papers: January 12, 2016

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