

International Workshop on Smart Spectrum (IWSS) in conjunction with IEEE WCNC 2015

Smart Spectrum Utilization Based on
Spectrum Measurement and Statistical Modeling
9 March, 2015, New Orleans, USA



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 2015 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

General co-chairs:

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Author guidelines:

Authors should follow the WCNC submission guidelines available at <http://wcnc2015.ieee-wcnc.org/authors> when preparing their contributions (maximum paper length: 6 pages including figures). Papers are submitted via EDAS conference management system: <http://edas.info/N18651>.

Important dates:

Paper submission: **November 8, 2014 (Extended)**

Notification of acceptance: December 15, 2014

Camera ready papers: January 10, 2015

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