

Call For Papers – WiFiUS Special Session in CROWNCOM 2014

The Wireless Innovation between Finland and the US (WiFiUS) program fosters long-term research and education collaborations between Finnish and American researchers in the area of wireless communications and networks. We are organizing a special session at the 9th International Conference on Cognitive Radio Oriented Wireless Networks (CROWNCOM) targeting the dissemination of results from the WiFiUS program and other collaborations between researchers in the two countries. CROWNCOM 2014 will take place in Oulu, Finland, on 2-4 June, 2014. We are currently soliciting papers for this special session.

Topics of particular interest include:

- Dynamic spectrum access and management: spectrum sensing; multi-dimensional spectrum sharing; radio resource management; interference coordination; multi-antenna transmission; flexible PHY/MAC.
- Network protocols for dynamic spectrum use: heterogeneous networks; cooperative communications; self-organized networks; load balancing and network optimization; cooperative radio resource management; cross-layer optimization; WiFi offloading; opportunistic spectrum use for small cells.
- Modelling and theory: interference modelling; channel utilization models; network information theory.
- Hardware architectures and testbed implementations: reconfigurable antennas and RF circuits; software-defined and reconfigurable radio; cognitive protocol implementations; certification and security issues.
- Next-generation cognitive networks: context-aware networks; mobile agents; network reconfiguration; complexity theory; social networks.
- Standards and business models: economic models and public policy to support flexible spectrum regimes; dynamic spectrum access in TV white spaces; licensed shared access; spectrum trading; multi-operator spectrum sharing.

Deadline: 31 March 2014

Submissions: Through the CROWNCOM 2014 website (<http://crowncom.org/2014/show/initial-submission>). Authors should select the "WiFiUS Special Session" box. Instructions for authors and the reviewing process are the same as for other papers submitted to the conference.

Questions: Contact Prof. Luiz DaSilva (ldasilva@vt.edu)