

Cooperative and Cognitive Networks Workshop

International Wireless Communications & Mobile Computing Conference

Website: <http://iwcmc.org/2015>

Submission Link: <https://edas.info/newPaper.php?c=17297>

August 24-27, 2015, University of Dubrovnik, Dubrovnik, Croatia

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Scope

Cognitive radio (CR) networks have emerged as a promising solution to overcome the spectrum scarcity problem in communication systems. It can be used to increase the spectrum efficiency through its capabilities to detect and opportunistically access vacant spectrum slots. Cooperative networks have also been recognized as a key technology for improving bandwidth utilization. Although the theoretical promise and potentials of cooperative and cognitive networks that have been established, practical implementations closing the gap between theory and practice still need to be addressed. This workshop seeks original papers describing research contributions that address cognitive and cooperative related issues and challenges, ranging from theory to practice, from architecture to algorithms, and from policy to implementation. Technical papers should describe original research that is unpublished and not under review by any other conference/journal. Topics include, but are not limited to:

- Performance analysis and information-theoretical approaches
- Protocol design and optimization
- Interference mitigation
- Relaying techniques for Free Space Optical (FSO) networks
- Physical layer security with relaying techniques
- Multimedia support and QoS management
- MIMO techniques for cooperative and cognitive networks
- Coordinated multipoint (CoMP) transmission and reception
- Spectrum sensing/sharing techniques with outdated CSI
- MAC design and scheduling
- Multi-hop and multi-antenna techniques for cognitive networks

- Spectrum bidding and pricing for cognitive radios
- Cross-layer designs and techniques
- Energy aware protocols and techniques
- Simultaneous information and power transfer techniques for cooperative and cognitive networks
- Security, robustness, and reliability
- Machine learning and adaptive techniques
- Pricing models and regulatory policies
- Experimental prototyping and test-bed evaluation
- Application platforms and middleware
- Cognitive Spectrum Access in Cellular Networks
- Device-to-Device Communications
- Cognitive spectrum access for Machine-to-Machine Communications.

Submission Guidelines

Authors are invited to submit original papers of no more than 6 pages (standard IEEE proceedings, two-column, 10 pt font, etc.), including figures, tables, and references, in PDF format. Accepted papers will be published in the IWCMC15 conference proceedings, which will be submitted to IEEE Xplore database. Submission implies that at least one of the authors will register and present the paper at the conference. Electronic submission is accepted through the EDAS web site at <https://edas.info/newPaper.php?c=17297>.

Important Dates

Paper submission deadline:	February 15, 2015
Paper acceptance notification:	April 15, 2015
Camera-ready paper submissions:	May 10, 2015
Author registration:	May 10, 2015
Conference date:	August 24-27, 2015

Workshop Chairs

Mahdi Ben Ghorbel, Qatar University, Qatar, mahdi.benghorbel@qu.edu.qa

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Technical Program Committee Members

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