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ACM Mobile Computing and Communications Review (MC2R)

Special Issue on
Cognitive Radio Technologies and Systems

Motivated by the need for efficient spectrum utilization, facilitated by regulatory policy movements, and enabled by advances in RF technologies, there has been significant research towards developing cognitive radio (CR) networks technologies. The purpose of this special issue is to facilitate the exchange of cutting-edge research in cognitive radio network technologies, including the exploration of networking and communication protocols and algorithms needed to facilitate the interconnection of CR platforms. Since CR research is taking place across multiple communities, ranging from academic to government to industry, from physical layer to networking to hardware researchers, we intend for this special issue to serve as a forum for collaboration that will accelerate the design, deployment, and eventual success of CR platforms. This special issue invites submission of manuscripts on analytical modeling, protocol/algorithm design, and/or experimental studies. Areas of interest include but are not limited to:

- Spectrum Sensing and Spectrum Management
- Cognitive Radio Test-Beds and Hardware Prototypes
- Enabling CR technologies such as Software Defined Radios, IEEE P1900, and IEEE 802.22
- Protocol and Algorithms for the PHY, MAC, and Network layer
- Accreditation, Trust, & Security Mechanisms for Cognitive Radio Networks
- QoS Support and Cross-Layer Protocol Design
- Cooperation and Game-Theoretical Protocols for Cognitive Radios
- Practical Experience and Systems Implementations
- Applications of Cognitive Radios

Original, unpublished contributions and invited articles will be considered for the issue. The papers should be formatted according to MC2R guidelines (<http://www.sigmobile.org/pubs/mc2r/guidelines/author.html>). Authors should submit their complete manuscript in PDF format via EDAS (<http://edas.info/>) under the Cognitive Radio Track of MC2R according to the following timetable:

Manuscript Submission Due: **Nov. 1, 2008, 5pm PDT**

Acceptance Notification: **Feb. 1, 2009**

Camera-Ready Paper Due: **March 1, 2009**

Projected publication date: **Apr., 2009**

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