

Call for Papers

Journal of Communications (<http://www.academypublisher.com/jcm/>) Special Issue on "Cognitive Radio Enabled Communications and Networking"

Recent advances in cognitive radio technology have enabled wireless devices and networks to efficiently locate and exploit under-utilized spectrum. This has motivated the re-evaluation of spectrum management policies worldwide, since the current command-and-control management model has created an "artificial" scarcity of spectrum by assigning fixed property rights to various spectrum bands. The new technology and policy changes pose many new technical challenges in various aspects of wireless communication and networking, such as interference management, distributed algorithm design, QoS guarantees, mobility management, and network interoperability.

The aim of this special issue is to bring together the state-of-the-art research contributions that address the major opportunities and challenges of cognitive radio enabled wireless communication and networking, with emphasis on both new analytical techniques and novel application scenarios. Topics of interests include (but not limited to):

- Spectrum measurements and modeling
- Spectrum sensing and cooperative detection
- Interference modeling and measurements
- Dynamic radio resource management
- Dynamic network architecture
- Fundamental performance limits
- Economic models and pricing for dynamic spectrum access
- Multiple access schemes for cognitive radio
- Cooperative and self-organizing cognitive networks
- QoS support for cognitive radios
- New cognitive radio enabled applications
- Spectrum mobility and smart roaming
- Trust and security mechanisms
- Implementation aspects and prototype design

Prospective authors should follow the submission instructions (see below) according to the following timetable:

Manuscript Submission Due:	April 15th, 2009 (5pm US Eastern Standard Time)
Acceptance Notification:	July 15th, 2009
Final Manuscript Due:	August 15th, 2009
Tentative Publication Date:	November, 2009

Submitted papers must be original and not have been previously published or currently submitted for journal publication elsewhere. Papers, which have appeared previously in proceedings of conferences, could be submitted to this special issue if they are substantially revised or improved from their earlier versions with at least 30% of new materials. A submitted paper should be no longer than 12 pages, with main text of 10-point in single-spaced two-column format. Latex users can use IEEEtran class as the formatting template. The page limit includes all figures, tables, references, etc.

Submissions must be sent in PDF format to all Guest Editors (jwhuang@ie.cuhk.edu.hk, wzhang@ee.unsw.edu.au, ekram@ee.umanitoba.ca, liye@ece.gatech.edu), with a title of "[JCM-SI] Submission: Cognitive Radio". Other file formats are not accepted. In the email main text, please provide:

- Title of the paper;
- Names, email addresses, contact information, and affiliations of all authors (please identify the corresponding author);
- Explanation on the differences between the journal submission and previous conference version (if any);
- Confirmation that all co-authors have read and agree with the instructions at <http://www.academypublisher.com/forauthors.html>. In particular, authors of accepted papers need to pay publication charges under the Open Access publication model.

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