

Call for Papers



Third ACM SIGMOBILE Workshop on Cognitive Wireless Networking (CoRoNet)



In Conjunction with ACM MobiCom 2011

September 19, 2011, Las Vegas, NV, USA

<http://www.acm-coronet.org>

Overview: Spurred by recent advances in software defined radios and cognitive radios, cognitive wireless networking has emerged as a promising approach to address several challenges affecting the networks of today, including spectrum efficiency, interference management, coexistence and interoperability. Cognitive networks are agile and adaptive to users' demand and characteristics of the wireless medium. Wireless devices in cognitive networks are capable of learning and predicting the state and behavior of coexisting network components and adversary devices, and capable of dynamically sharing the spectrum and computational resources in temporal, spatial, and frequency domains.

Scope: Original papers describing both experimental and theoretical results in cognitive networking are solicited. Topics of interest include, but are not limited to, the following areas as applied to cognitive networks:

- Models and fundamental limits
- Impact of traffic patterns, topology, mobility, and interference tolerance
- Statistical inference from inaccurate, inconsistent, and delayed measurements
- Sensing and feedback mechanisms
- MAC and routing protocols
- Transient behavior and stability analysis
- Security and robustness issues
- Spectrum sharing, coexistence, and interoperability
- Auction and pricing models for dynamic spectrum sharing
- Test-beds and hardware prototypes
- White space networking
- Application in specific settings such as rural networks

Paper Submission: ACM CoRoNet invites manuscripts that present original materials not previously published in, or currently under review by, other conferences, workshops, or journals. Submissions will be handled electronically via a link provided on <http://www.acm-coronet.org>. Papers must be in PDF format, no longer than 6 pages using the ACM SIG Proceedings templates.

Important Dates

Paper submission deadline: June 13, 2011
Notification of acceptance: July 8, 2011
Camera-ready papers due: July 18, 2011
Workshop: September 19, 2011

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