

CALL FOR PAPERS

IEEE DySPAN is the premier conference to discuss, publish and present recent results in Dynamic Spectrum Access (DSA) and Cognitive Radio Domain, including discussion on any radical and novel approaches towards more efficient spectrum use and technologies related to that. There has been tremendous progress in the research and development of DSA in recent years and the organizers of IEEE DySPAN 2011 encourage submissions that exhibit the recent success stories and research that go also beyond narrow meaning of DSA. The special themes for 2011 are advanced spectrum engineering, novel spectrum sharing methods and policies, and systems oriented research.

IEEE DySPAN 2011, like its predecessors, is a unique symposium that gathers technology, policy and regulatory communities together. In addition to program tracks for technology and policy papers, the conference will hold system demonstrations, panels, and tutorials that are tailored for special audiences such as regulators and industry. The conference will also host several keynote sessions given by leaders of the technology and policy communities. The confirmed keynote speakers include Doug Sicker, CTO and Chief Technologist of the Federal Communication Committee (FCC) and Matthias Kurth, President of BNetzA, the network regulation agency of Germany.

IEEE DySPAN 2011 welcomes contributions dealing with regulatory aspects of dynamic spectrum access, theoretical studies, algorithm and protocol design for cognitive radios and networks, as well as application-oriented contributions dealing with architectures, platforms, signaling and multiple access schemes. We are particularly looking for papers reporting on systems aspects and prototypes, summaries on the regulatory advancements, spectrum measurements and analysis of white space opportunities, and business cases for advanced spectrum engineering. We invite contributions outlining advances in self-optimization, learning, and context sensitivity of cognitive radios, and DSA concepts that consider a complete network and describe novel optimization schemes.

We are also pleased to announce that selected conference papers will be fast-tracked to journal publications. The chairs are finalizing the process with selected journals. As an example, suitable papers will be considered for publication in the extended form in IEEE Transactions on Mobile Computing. We seek original and unpublished work not currently under review by any other journal/magazine/conference. We seek technology and policy topics including, but not limited to, the following:

TECHNOLOGY PROGRAM

- Spectrum measurement and models
- Architecture and platform for dynamic spectrum access networks
- Efficient and broadband spectrum sensing
- Spectrum sensing mechanisms and protocol support
- Interference metrics and measurements
- Radio resource management and dynamic spectrum access networks
- Applications of DSA
- New spectrum sharing models
- Multiple access schemes for cognitive radio networks
- Cross-layer optimization for cognitive radio networks
- Information-theoretic aspects of cognitive radio networks
- QoS provisioning and MAC protocol
- Trust and security issues
- Experimental prototypes and results

POLICY PROGRAM

- Business model / Pricing for dynamic spectrum access
- Market trends for secondary spectrum usage
- Regulations for dynamic spectrum access
- Software regulation / standardization and equipment certification
- Industrial and government role in dynamic spectrum access
- Dynamic spectrum auction and economics
- Spectrum etiquettes for unlicensed bands
- Defining / Enforcing rights and responsibilities of spectrum licensees and easements

PAPER SUBMISSIONS: The conference language is English. Papers should be concisely written. Maximum paper length for review is 12-pages in IEEE conference proceedings format (two-column and 10-point font). Register and submit your paper via EDAS (<http://edas.info>).

IMPORTANT DATES

Abstract Registration: 8 November 2010 (Recommended)
 Paper Submissions Due: 15 November 2010, 23:59EST 2010 (Firm, no extension)
 Panel and Demo Proposals Due: 15 November 2010, 23:59EST (Firm, no extension)
 Tutorial Proposals Due: 30 November 2010
 Acceptance Notification: 8 February 2011

ORGANIZING COMMITTEE

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