

GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

Software Defined and Cognitive Radios

www.ieeeglobalsip.org/sym/13/SDCR

December 3-5, 2013 • Austin, Texas, U.S.A.

Call for Papers

Wireless communication has witnessed a continuous trend towards application, services, usage and standard diversification. At the same time, communication services are used more often with battery-powered devices, whose performance requirements are coupled with drastic constraints on energy-efficiency. Besides, the variety of wireless standards and the huge and increasing costs related to system-on-chip design urge high-volume, multi-purpose, and preferably widely programmable devices that can be easily updated even after deployment. An effective solution is the combination of reconfigurable analog front-end circuits and programmable digital baseband engines, namely software-defined radio (SDR). The design of energy-efficient SDR baseband solutions for broadband standards yields exciting design challenges in particular in dynamic spectrum management in cognitive radios (CR) and in improving spectrum sharing efficiency with the aid of cooperative communications. The Symposium invites novel contributions on energy-efficient SDR and CR, baseband processing software design methodologies and dynamic spectrum access.

Topics of interest include:

- Algorithm and architecture co-optimization
- Platforms and architectures for SDR and CR
- RF/analog architectures for SDR
- Design methodologies and tools
- Baseband processing techniques
- Software for SDR and cognitive radios
- Cognitive radio technologies
- Dynamic spectrum access technologies

Paper Submission

Paper submission will be online only through the GlobalSIP 2013 website. Papers should be in IEEE two-column format and no longer than 4 pages.

Symposia Website

Full details, new updates, and submission instructions can be found on the symposia website, <http://www.ieeeglobalsip.org/sym/13/SDCR>

Organizing Committee

General Chair

Brian Evans
University of Texas at Austin

General Chair

Markku Renfors
*Tampere University of
Technology*

Important Dates

Paper Submission Deadline	June 15, 2013
Review Results Announce	July 30, 2013
Camera-Ready Papers Due	September 7, 2013

