Call for Papers
IEEE Journal on Selected Areas in Communications: Cognitive Radio Series
http://jsac-crs.i2r.a-star.edu.sg

Since its inception in 1999, cognitive radio (CR) has been considered as a promising means for realizing dynamic spectrum access and thereby addressing the spectrum scarcity problem encountered in many countries. The field has since produced various cognitive functionalities in radio design, as a result of inter-disciplinary efforts from many research communities. Meanwhile, many standardization activities, such as IEEE 802.22, ECMA 392, IEEE SCC41, and IEEE 802.11af, have contributed to realizing cognitive radio’s potential for commercial use. Besides, there have been worldwide efforts from agencies such as FCC and Ofcom to remove regulatory barriers to future deployment of CR networks.

To address this large and rapidly growing interest, the IEEE Communications Society has launched a new series on cognitive radio, published under the banner of the IEEE Journal on Selected Areas in Communications (JSAC). The inaugural issue of the series has been published in November 2012 issue of JSAC, and starting in 2013, the regular issues of JSAC will be supplemented by two issues dedicated to cognitive radio each year. The series will serve as a platform for communicating state-of-the-art CR research, highlighting the research challenges that remain unanswered and further exploring innovative solutions for resolving them. Accordingly, we invite the submission of high-quality manuscripts in the relevant sub-topics of cognitive radio, papers which have not been published previously and are not currently under review by any journal. The general scope of this series includes, but is not limited to, the following:

- Information-theoretic aspects of cognitive radios
- Spectrum sensing techniques for cognitive radios
- Physical (PHY) layer design of cognitive radios (e.g., transmitter waveform design, multiple access schemes, ...)
- Medium access control (MAC) design for cognitive radio networks
- Routing, spectrum mobility, and dynamic resource management
- Cross-layer optimization for cognitive radio networks
- Cooperative techniques and energy-efficiency design of cognitive radio networks
- Security issues in cognitive radio networks
- Artificial intelligence and machine learning for cognitive radios
- Spectrum sharing and dynamic spectrum access
- Spectrum pricing, economics models and game theory for dynamic spectrum access
- Bio-inspired network design and network sciences
- Emerging applications of cognitive radio (heterogeneous networks, small cells, D2D communications, green communications, ...)

Prospective authors should prepare their submissions in accordance with the rules specified in the ‘Information for Authors’ section of the JSAC guidelines (http://www.jsac.ucsd.edu/Guidelines/info.html).

All manuscripts should be prepared in single-column double-spaced format with no longer than 30 pages inclusive figures and tables. Double-column single-spaced format should also be submitted. Both formats should be complied as a single PDF file and submitted to EDAS: www.edas.info.

Papers submitted for possible publication November 2014 issues should follow the following timetable.

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