Call for Papers

ISWCS2016 Workshop on

Spectrum Aggregation and Sharing for 5G Networks (SAS5G)

September 20, 2016

Spectrum is the key resource for all wireless communications. This workshop will bring together experts from the field of Spectrum Aggregation and Sharing to give an overview of the state-of-the art, to disseminate their latest developments, and to discuss the future of these two technologies and in particular their potential impact on the coming 5G systems. This workshop is supported and organized by the 3 most important EU-funded projects (ADEL and SOLDER from FP7 and SPEED-5G from H2020) currently working on different aspects of spectrum management, aggregation and sharing technologies.

Spectrum for cellular communications up to 4G is owned almost exclusively by operators or incumbents, or is unlicensed. This model is likely to change in 5G, where new spectrum band and types will be added to the game and new sharing paradigms will come into play. Already 3GPP release 13 foresees the aggregation of licensed with unlicensed bands (also known as licensed assisted access (LAA) or LTE-WLAN aggregation (LWA)). Moreover several trials are currently ongoing in different areas of the world to evaluate the feasibility and acceptance of licensed shared access (LSA). These new paradigms require new multi-band transmission techniques, new cooperative approaches to resource sharing and allocation, spectrum sensing and information exchange, control and data planes, fairness and revenue schemes.

This full day workshop will tentatively be organized along the following four sessions:

Session 1: Keynote Talks

> Keynote titles and speakers to be confirmed.

Session 2: Workshop presentations I

> Invited papers and talks and papers submitted from this open call.

Session 3: Workshop presentations II

> Invited papers and talks and papers submitted from this open call.

Session 4: Panel discussion: The future of cognitive radio and spectrum sharing

> The term "cognitive radio" has been introduced almost 20 years ago, but despite a large amount of research and papers, the original ideas of Joseph Mitola III have not quite made it into real systems. The goal of this panel is to get the visions of known experts in the field in focus w.r.t. what are the next opportunities to deploy cognitive radio and spectrum sharing and management techniques.
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> Each panelist will present a brief 5 minute presentation on his/her view on the future of cognitive radio and spectrum sharing, followed by a discussion and Q&A Session.

This open call solicits paper submissions on the range of topics addressed in this Workshop.

Important dates:

Submission deadline: June 17, 2016
Notification of acceptance: July 8, 2016
Early bird registration: July 11, 2016 (tentative)
Camera-ready papers & author registration: August 1, 2016

Submission guidelines:

Papers should be written in English with a maximum length of 5 pages (two-column A4, 10-point font) following the standard IEEE manuscript template. This template and other manuscript preparation instructions are the same as for general paper submissions and can be found at http://iswcs2016.org/welcome/menu/sub_guide

Papers are to be submitted on EDAS: https://edas.info/newPaper.php?c=22608&track=80987

Accepted papers will be published on IEEE Xplore.

Workshop Chairs:

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