

CALL FOR PAPERS

ELMAR-2012 Special Sessions on Future Challenges in Spectrum Engineering

Summary:

In the past decade electronic communications became a very important part of everyday life, present in all fields of modern society and available (almost) everywhere and to everyone. All of these systems and networks use scarce radiofrequency spectrum, which made it quite attractive, wanted and valuable natural resource. Furthermore, with ever-growing user requirements for new services, higher capacities and increased reliability, the available radiofrequency spectrum had become even more scarce, leading to a number of both technical and non-technical challenges.

Spectrum management is one of the fundamental aspects for future development of radiocommunications services. It covers technical, regulatory and economic issues in order to provide efficient usage of radiofrequency spectrum. Typically, this includes harmonisation of frequency usage, coexistence of different technologies, cross-border coordination and protection of services, economic impact and spectrum value assessment etc, but also a number of research activities with specific aim to decrease spectrum scarcity and ensure the coexistence of new and existing radiocommunications services.

This session will be focused on state of art innovations and novel concepts in this area, with special attention on research activities related to Cognitive Radio, LTE implementation, new wireless, mobile and broadcast technologies, Digital Dividend etc.

The topics for this special session should cover:

- Innovations and spectrum management issues for Cognitive radio
- Frequency management for the Digital Dividend
- New technologies and spectrum opportunities for microwave links
- Planning and Coordination of Digital Broadcast Networks
- Spectrum Monitoring
- Flexible Spectrum Allocation

Paper submission deadline: 15 April 2012

Special session organizer:

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