

CALL FOR PAPERS

ELMAR 2014 Special Session on New Trends in Spectrum Engineering

Summary:

Spectrum engineering is one of the crucial aspects for the implementation and operation of different radiocommunications networks, as well as for the development of future wireless technologies and services. Spectrum engineering encompasses technical, regulatory and economic issues in order to provide the efficient usage of radiofrequency spectrum. Harmonisation of frequency usage, coexistence of different technologies, cross-border coordination and protection of services, economic impact and spectrum value assessment are some of many activities comprised in the field of spectrum engineering.

Electronic communications have become a very important part of everyday life, present in all fields of modern society and available (almost) everywhere and to everyone. User requirements for new services, higher capacities and increased reliability make radiofrequency spectrum attractive, wanted and valuable natural resource, which must be efficiently managed. Key aspects in spectrum engineering include strategic regulatory decisions and new, innovative approaches to the spectrum management, as well as extensive research of the emerging wireless technologies.

This session will be focused on new trends in spectrum management in general, with a special attention on research activities related to the dynamic spectrum access and Cognitive radio, second digital dividend and the future of television/broadcasting, further development of LTE and advanced wireless technologies, smart grid/metering, wireless M2M etc.

The topics for this special session should cover (but are not limited to):

- flexible spectrum allocation
- cognitive radio and dynamic spectrum access
- second Digital Dividend and new challenges for the television broadcast
- planning and coordination of digital broadcast networks
- spectrum monitoring and measurements
- propagation issues, sharing criteria and co-existence of different networks
- M2M, smart metering / smart grids, UWB...

Submission:

Authors should prepare their papers according to [ELMAR-2014 paper sample](#), convert them to PDF (based on IEEE requirements), and submit papers sending them to: elmar@hakom.hr by **1 May 2014**.

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