

CALL FOR PAPERS

ELMAR 2015 Special Session on

Future of the UHF band - second digital dividend and digital terrestrial television

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. 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. 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.

The UHF band is one of the most attractive parts of radiofrequency spectrum. In the past, the UHF band was allocated for television broadcasting, but during the last few years mobile and wireless communications are introduced in UHF band as part of digital dividend after the analogue TV switch off. The future of the UHF band (second digital dividend and digital terrestrial television) is one of the hot topics in the last few years. This session will be especially focused on new trends in spectrum management in the UHF band, with a special attention on research activities related to the allocation of the second digital dividend and the future of television broadcasting, further development of LTE and future mobile networks etc.

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

- second Digital Dividend (spectrum value assessment, technical, economic and cultural aspects)
- new challenges for television broadcasting (compression standards, picture formats, non-linear services etc.)
- planning and coordination of digital broadcast networks (transition to DVB-T2, the effects of second Digital Dividend etc.)
- QoS of future mobile networks
- propagation issues, sharing criteria and co-existence of different networks in the UHF band (PPDR, PMSE etc.)

Submission:

Authors should prepare their papers according to ELMAR-2015 paper sample, convert them to PDF (based on IEEE requirements), and submit papers sending them to: elmar@hakom.hr by **1 May 2015**.

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