

ETAI 2013

Call for papers

Special Session on *Trends in Flexible Spectrum Management: Measurements, Modeling and Operation*

Special Session Chair: Prof. Liljana Gavrilovska, UKIM-Skopje

The Special Session is organized within the NATO SfP-984409 project:

OPTIMIZATION AND RATIONAL USE OF WIRELESS COMMUNICATION BANDS (ORCA)

Short description:

The plethora of wireless communications and services yields the necessity for more optimized usage of the available spectrum bands. Current spectrum allocation policies lead to inefficient spectrum utilization due to the static spectrum allocation approach. Therefore, recent advances in wireless communications focus on flexible spectrum management solutions that surpass the spectrum (under)utilization approach and allow for design and development of innovative networking concepts such as Dynamic Spectrum Access (DSA) and Cognitive Radio (CR) concepts.

The flexible spectrum management approach requires an accurate estimation of the current spectrum utilization and assessment of potential vacant spectrum holes. The main objective of the measurements and the modelling is to evaluate spectrum occupancy fostering subsequent decisions (based on the empirical and modelled data) on potential secondary usage of particular spectrum bands. This may prove as a crucial step towards practical implementation of secondary spectrum usage technologies.

This Special Session targets recent advances in spectrum measurements, spectrum usage modelling and potential functional and operational procedures within towards possible re-usage of the underutilized TV and radar spectrum bands. It will showcase papers that analyze spectrum measurement methodologies, spectrum usage modelling methodologies, mechanisms for reliable interference monitoring, spectrum intruder detection etc. These aspects contribute to the development of novel business opportunities and services leading to increased revenues and increased survivability of the wireless communications systems under various circumstances. The session is organized within the ongoing NATO SfP-984409 project ORCA and the planned discussions related to measurement campaigns and spectrum assessment will provide reliable insight into the spectrum occupancy in different European countries.

Link for submissions (Easy Chair System)

<https://www.easychair.org/conferences/?conf=etai2013>

Please select the track: **Special session – ORCA**

Important Deadlines

Paper submission deadline	25.08.2013
Notification of acceptance	30.08.2013
Submission of camera-ready papers	05.09.2013