

23rd International Conference on Telecommunications

ICT2016 "Expansion to Small"

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Technical Sponsorship



Special Session

Recent advances in REM-facilitated technologies for future 5G networks

Organizer: Liljana Gavrilovska, Ss. Cyril and Methodius University in Skopje, FYROM

Call for Papers

The special session "Recent advances in REM-facilitated technologies for future 5G networks" solicits original and previously unpublished papers targeting research challenges, advances and proof-of-concepts towards radio aware environments enabled by advanced techniques for radio environmental knowledge extraction.

The evolution of the future wireless networks, with a special emphasis on 5G, offers an increasing wealth of opportunities for novel access and core technologies, novel radio resource management techniques, novel user-centric optimization techniques and increased level of network self-awareness and self-optimization.

The special session aims to cover the aspects of Radio Environment Map (REM) data management and exploitation with an emphasis on needed Radio Resource Management (RRM) approaches towards 5G networks exploiting the diverse REM embedded opportunities. We expect original work, not currently under review by another conference or journal, which describes theoretical work validated by simulation or experimental studies. Developed proof-of-concepts and testbeds are of particular interest. Additionally, the papers should address the industry benefits from the REMs, i.e. pinpoint and discuss potential REM beneficiaries in the 5G context that may vary from wireless access and backhaul networks to the emerging IoT and M2M technologies. They all benefit from the improved communication coverage, capacity and reliability enabled by the REM information.

Topics of interest include, but are not limited to, the following:

- REM architectural designs and prototypes as well as interfacing towards relevant 5G networks entities
- REM inference techniques (e.g. spectrum sensing, localization, propagation modeling etc.) and their operation in the 5G context
- Improved Radio Resource Management (RRM) techniques based on REMs and their practical deployment and operation
- REM use cases and scenarios in the context of 5G vision

Prospective authors are invited to submit high-quality original technical papers following the rules of the Main Track of ICT 2016 for presentation at the conference and **publication in the ICT 2016 Proceedings and IEEE Xplore**, via EDAS, using <https://www.edas.info/newPaper.php?c=21703&track=78307>.

Important dates

Paper submission deadline: **February 20, 2016**

Notification of paper acceptance: **March 5, 2016**

Camera Ready Papers: **March 15, 2016**

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