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ELMAR 2017 Special Session

From 3G to 5G

Summary:

On average, mobile users are consuming 57 percent more mobile data each year, a trend that shows no signs of slowing down. Therefore, maintaining a good network performance and satisfactory user experience in increasing usage of legacy 3G/4G networks is still one of the major challenges. 4G network we have today will get us to the 5G network we will need tomorrow. 5G will enable new verticals, new services and new business models that require single-digit-millisecond latencies such as driverless cars. This translates into a need to:

- create effective traffic management strategies over legacy networks
- understand the benefits of mobile data offload solutions
- determine the right moment for HetNet, Small Cell and SON solutions
- utilize advanced antenna techniques in 4G deployment
- investigate advances antenna techniques for 5G
- define all possible drivers for 5G in the future

The topics for this special session:

The topics suggested by the conference can be discussed in term of concepts, state of the art, research, standards, implementations, running experiments, applications, and industrial case studies. Authors are invited to submit complete unpublished papers, which are not under review in any other conference or journal in the following, but not limited to, topic areas. All topics are open to both research and industry contributions. The topic for this special session should cover:

- QoS and end-to-end QoE monitoring
- capacity, coverage and energy consumption optimization
- SDR, NFV and SON
- DAS, HetNet, SmallCel, Wifi integration and Interworking strategies
- smart antennas, adaptive antennas, MIMO and beam forming
- innovations in 5G radio technologies and network architectures
- new mobile services and use cases in 5G
- Network Slicing in 5G
- IoT's impact on 5G

Submission

Authors should prepare their papers according to **ELMAR-2017 paper sample**, convert them to PDF (based on IEEE requirements), and submit them by **April 28, 2017** to one of the e-mail addresses listed below.

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