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SPECIAL CELEBRATION-YEAR EDITION! CALL FOR WORKSHOP PAPERS www.pimrc2017.org

SPECIAL SESSION SP-01 ON BIG DATA-ENABLED 5G SYSTEMS

SCOPE

Fifth Generation (5G) wireless systems will be radically different from previous generations as it will provide ultra-reliable and low latency communications, support massive machine type communications, and introduce enhanced mobile broadband. These three goals stem from the diverse use cases and application domains envisioned for 5G, which include the smart grids, the Internet of Things (IoT), and connected vehicles, just to name a few.

To meet these goals, 5G should deliver significantly high peak data rates, spectrum efficiency, area traffic capacity, connection density, network energy efficiency, as well as improved user experience and significantly reduced latency. Making these deliverables will need 5G to leverage big data analytics to proactively allocate network resources. More specifically, the aggregated data by the different 5G devices and systems can be utilized, using elegant big data analytics techniques, in order to provide descriptive, predictive, and prescriptive functionalities. The main challenge of big data analytics for 5G is to come with algorithms to make these functionalities aligned together to maximize the 5G system performance, enable the consideration of other important objectives such as 5G Infrastructure planning, QoS, and operational management which provides insights for future improved design.

TOPICS

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

- Big data analytics to improve QoS in 5G networks
- Big data analytics to maximize performance in 5G networks
- Big data analytics to minimize operational management in 5G
- Big data analytics to optimize 5G radio access networks
- Big data platforms for 5G
- Big data representation and modeling in 5G
- Social media data analysis for 5G

EDAS submission link: http://edas.info/N23921

Accepted and presented papers will be published in the IEEE PIMRC 2017 Conference Proceedings and submitted for inclusion in IEEEXplore®.

IMPORTANT DATES

Review paper submission: **04 August 2017**
Notification of acceptance**: 18 August 2017**
Camera-ready submission: **25 August 2017**

WORKSHOP SP-01 CO-CHAIRS

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MORE INFO

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