Special Issue

Radio Resource Management for IoT Networks in 5G Environments

Message from the Guest Editor

Internet of Things (IoT) encompasses the interconnection of devices that may perform sensing, actuation, storage, computing and decision-making functionalities. An important feature that can enhance the capabilities of IoT is related to the introduction of mobile devices. Different Radio Access Network standards, such as LTE-M, LoRaWAN, can address different use case requirements. These heterogeneous networks may be parts of 5G architectures that are based on SDN/NFV in order to enable the development of solutions using virtualized and softwarized network functions. In this complex ecosystem, Radio Resource Management has an important role to ensure optimum network operation and the provision of the required resources for various vertical application domains, exploiting enhanced context awareness. Topics include but are not limited to:

- Admission control schemes;
- Resource scheduling algorithms;
- Radio network planning and capacity dimensioning for heterogeneous IoT networks;
- Integrated backhaul and fronthaul designs for massive IoT deployments;
- Intelligent IoT algorithms using enhanced context information;
- Mobile IoT QoS management considering 5G SDN/NFV architectures.
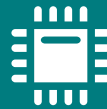
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Message from the Editor-in-Chief

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