

Special Issue

Flexible Radio Access Techniques for 5G and Beyond

Message from the Guest Editor

Today's wireless services and systems have come a long way since the rollout of conventional voice-centric cellular systems. The demand for wireless access in voice and multimedia applications has increased tremendously. In addition to these, new application classes such as extreme mobile broadband communication, ultrareliable and low-latency communications, massive machine-type communications, and Internet of Things have gained significant interest recently for 5G. The trend on the variety and number of mobile devices along with mobile applications will certainly continue beyond 5G, creating a wide range of technical challenges, such as cost, power efficiency, spectrum efficiency, extreme reliability, low latency, robustness against diverse channel conditions, cooperative networking capability and coexistence, and dynamic and flexible utilization of a wireless spectrum. In order to address these technical challenges, 5G waveforms and radio access technologies (RATs) should be much more flexible.

Guest Editor

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