

Special Issue

5G Cooperative Wireless Networks

Message from the Guest Editors

The increasing demand for even higher data rates compared to current cellular networks, leads scientific progress towards standardization and implementation of fifth-generation (5G) mobile-cellular networks. Lots of technologies would benefit from a knowledge of accurate locations of mobile terminals (MTs). In cooperative localization, device-to-device (D2D) communications remove the need for all MTs to be connected to multiple base stations (BSs), and, thus, long-range BS transmissions are replaced with multi-hop communications among the densely located MTs. Apart from physical layer design aspects, another area posing significant challenges in 5G-LTE networking is NFV/SDN management. In particular, this challenge is related to intermittent connectivity between the management and orchestration (MANO) platform and the radio access nodes. This Special Issue is seeking high-quality submissions that highlight emerging applications and address recent breakthroughs in the design and implementation of advanced cooperative transmission and networking algorithms in the context of 5G networks.

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