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# Lobamba communication operator base station cooperation

Base Station (BS) cooperation has been considered as a promising technology to mitigate co-channel interference (CCI), yielding great capacity improvement in cellular ...

This paper presents a cooperation framework for sharing base stations (BSs) among N number of collocated radio-access networks (RANs) for improving energy efficiency ...

Driven by the intelligent applications of sixth generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the physical and cyber ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network ...

Abstract--The link quality in cellular networks strongly depends on the location of the users relative to the serving and interfering base stations (BSs). This paper proposes a ...

Abstract--This paper presents a tractable model for analyzing non-coherent joint transmission base station (BS) cooperation, taking into account the irregular BS deployment ...

The energy consumption of the mobile network is becoming a growing concern for mobile network operators and it is expected to rise further with operational costs and carbon ...

Millimeter wave (mmWave) signals are much more sensitive to blockage, which results in a significant increase of the outage probability, especially for the users at the edge of ...

The cooperation between base stations is considered in this paper. If the local base station does not cache the content requested by the local user, other neighboring base ...

Energy Harvesting technology contributes significantly to green cellular networking by ensuring self-sustainability and extinguishing environmental hazards. Due to the imbalance ...

First Experimental Scenario For this scenario we set up two base stations (bandwidth of 25 PRBs was configured for base station 1 and 15 PRBs for base station 2) and ...

Novel application scenarios expected in the future wireless communication, such as unmanned aerial vehicle (UAV) regulation and autopilot, require sensing function with high ...

To improve the utilization of infrastructure resources and reduce the cost of operators in the future 6G network construction, a 6G shared base stations optimization model ...

Abstract This work focuses on a large-scale multi-cell multi-user MI MO system in which L base stations (BSs) of N antennas each communicate with K single-antenna user ...

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In the future, it can be envisioned that the ubiquitously deployed base stations of the 5G wireless mobile communication infrastructure will actively participate in the context of ...

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