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Title: Distributed base stations in communication networks

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Another variation on the Distributed BTS concept is the capacity transfer system, in which a single BTS with a digital connection to the BSC (Base Station Controller) is connected to additional tower sites ...

In this system, the base band unit (BBU) and RF unit (RFU) of the base station are separated, and the RFU is equipped with base band RF interfaces for interconnecting the BBU and ...

In this paper, we build on these advances for design of a concept system that we term distributed base station (DBS), targeting significant improvements in communication link range and/or data rate.

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base ...

In this context, this paper aims to develop a distributed BS assignment algorithm that is suitable for multi-cell mobile wireless systems for the efficient support of machine-type communication scenarios ...

Base stations form a key part of modern wireless communication networks because they offer some crucial advantages, such as wide coverage, continuous communications and an array of ...

Distributed base stations are a new generation of modern products used to complete network coverage. Its main feature is that the RF processing unit is separated from the traditional ...

The DBS5900 can meet the needs of industry users for wireless broadband access and multimedia critical communication, and obtain better coverage and user experience. The DBS5900 adopts a ...

In this letter, we aim to optimize the placement of base station (BS) antennas for maximizing the average ergodic sum capacity of a multi-user distributed antenna system (DAS).

# Distributed base stations in communication networks

In a distributed base station, baseband units are concentrated in a data center or network center, while RF units are distributed across multiple site locations. This architecture is also referred ...

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