Super Base Station Communication Architecture

In this paper, a centralized architecture for radio access network is put forward as a prospective solution for an energy-efficient fifth-generation mobile communication system which is ...

Base station operators deploy a large number of distributed photovoltaics to solve the problems of high energy consumption and high electricity costs of 5G base stations.

Herein, dynamic high-speed switches (HSSs) connecting BBUs and RRHs were designed for a centralized base station architecture. We analyzed the characteristics of actual traffic and ...

In this paper, we aim to develop a novel superbase station (SupBS) network architecture to tackle these issues. The proposed SupBS architecture consists of two layers, namely, an...

mobile communication networks and the traditional virtual machine migration in computor networks. The main idea is to logically separate the processing task and data context during the resource...

In this paper, a centralized radio access network architecture, referred to as the super base station (super BS), is proposed, as a possible solution for an energy-efficient fifth-generation (5G) mobile ...

Densely deployed small cell architecture faces several major challenges, including low infrastructure utilization ratio, severe inter-cell interference, and so on. In this article, we aim to develop a novel ...

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 ...

In this paper, we present a logically distributed but physically centralized mobile network architecture, referred to as the super base station (super BS), for the 5G system.

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