
Solve the problem of communication without base station

Why do we need additional base stations in case a?

In Case A, a new demand is created in each period in addition to the demand of previous periods. Hence, additional base stations (BSs) may be needed to satisfy the new demand.

How to optimize the location of BSS in wireless communication networks?

Some studies optimize the location of BSs in wireless communication networks through exact solution approaches such as mixed integer linear programs (MILP) and algorithmic approaches

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How do BS-relay stations work?

The algorithm takes into account network throughput and coverage to achieve BS-Relay Station deployment. From the perspective of energy and the environment, the power that a BS consumes is proportional to the maximum region that the BS can serve. Cost minimization is an issue that needs to be considered in BS construction.

Do aerial base stations provide reliable coverage in far-flung areas?

Contextually, we focus on one of the most promising solutions to provide sufficient and reliable coverage in far-flung areas: aerial base stations (ABSs), which consist of unmanned aerial vehicles (UAVs) carrying cellular BS equipment.

In this paper, we address the classical problem of locating base stations for a mobile cellular network to serve mobile users in a given geographical area considering the users' ...

During low traffic hours, switching off base stations is an effective way of saving energy in mobile communication networks. To serve increased traffic and to fulfill large and high-speed data ...

This paper discusses the site optimization technology of mobile communication network, especially in the aspects of enhancing coverage and optimizing base station layout. ...

Solution for Power Supply and Energy Storage of Solar Communication Base Stations With the continuous extension of communication network construction to remote ...

The new generation of mobile phone technology makes it possible to communicate directly from one telephone to another without having to rely on base stations. A Swedish ...

Signal coverage quality and strength distribution in complex environments pose severe challenges, leading to the inadequacy of traditional two-dimensional base station ...

This article addresses the base station deployment problem in LTE networks, thus assuming power emission and frequency as fixed. The increasing traffic and the densification of the base ...

Even though achieving global connectivity represents one of the main goals of 5G and beyond wireless networks, exurban areas are still suffering frequent outages because of ...

Most of the current research is based on the performance of the base station (BS) itself or the operation mode of the communication operator without considering the users' ...

In the wireless communication system of large venues, the signal conflict of multiple base stations will seriously affect the communication quality, and the problem of signal ...

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