Base station communication algorithm

To cope with this complex problem, researchers are increasingly adopting genetic algorithms (GA) and machine learning (ML) methods to improve the deployment efficiency and ...

An important component of 4G LTE network planning is the proper placement of evolved node base stations (eNodeBs) and the configuration of their antenna elements.

1. Introduction, the enhancement of wireless network performance is concerned with meeting the increasing communication demands. For wireless communication systems, the selection ...

With 13 base stations, it achieves an effective coverage rate of 93.5% and an overall coverage rate of 97.75%. The algorithm can rapidly compute a revised deployment strategy in ...

In order to address this problem, this paper proposes a multiobjective genetic algorithm-based methodology that performs optimal selection and location of base stations robustly.

The positioning of base stations at the optimal location plays a major role in cellular communication. In this paper we had implemented two algorithms - Particle Swarm optimization (PSO) algorithm and ...

This article conducts an in-depth exploration of key factors influencing 5 G base station deployment optimization, including base station types, locations, heights, and other critical ...

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 ...

The base station siting problem is to select a suitable new base station to meet the services at the weak coverage points based on the existing base stations, and to consider the signal propagation range ...

Firstly, this paper outlines the site selection issues for communication base stations, considering the varying communication needs of users and constructs a site selection model for ...

Base station communication algorithm

Web: https://anaelenaartistapmu.es