
Base station communication scenario

What is a good performance for a base station auxiliary equipment?

The good performance indicates its significant applications as a base station auxiliary equipment working in the millimeter-wave band and suggests its potential to inspire the development of new wireless communication technologies.

How a beamforming system enables smart communication of new types of base stations?

The independent and reconfigurable capabilities in manipulating the propagation directions of four streams have facilitated the smart communication of the new types of base stations. We summarize the properties of the proposed beamforming system in Table 1.

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.

How can a millimeter-wave base station improve real-time information transmission?

Finally, the proposed metasurfaces help the millimeter-wave base station to realize real-time information transmission of multi-users with different directions in a realistic indoor scenario. The experimental results demonstrate that the new beamforming base station system can intelligently enhance or attenuate signals in specific target areas.

Unmanned aerial vehicles (UAVs) offer a potential alternative for providing voice services in areas where communication is disrupted due to natural disasters. These UAVs can ...

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

Considering that one of the goals of the future network generations is to provide ubiquitous communication in the most diverse scenarios to achieve high connection coverage, ...

With the arrival of 5G era and the vigorous development and construction of smart city infrastructure, the coverage of a single base station becomes smaller, so it needs to be ...

We propose a method to deploy UAVs as aerial base stations cooperating with these existing TBSs to serve all UEs in the post-disaster area based on Q-learning. In the post ...

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

The base station installed on the unmanned aerial vehicle, referred to as the UAV-mounted base station (UBS), is considered an innovative paradigm for...

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' ...

Cooperative and point to point communication scenario with a single cell, Base Station, cluster 1 carries two near users, cluster 2 carries two far users.

It delves into UAV communication and location collaboration technology oriented towards base station sensing, with a primary focus on the communication-sensing issues of ...

The collaborative deployment of multiple UAVs is a crucial issue in UAV-supported disaster emergency communication networks, as utilizing these UAVs as air base stations can ...

Simultaneously, in the age of big data information, it is possible to obtain real-time feedback of base station traffic data. By acquiring information about traffic changes in mobile ...

With the rapid development of next-generation wireless communication systems, the increasing density of heterogeneous base stations and the dynamic nature of channel conditions have ...

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 ...

The problem of limited computing power of mobile terminal users is solved. At present, many researches on mobile edge computing are based on multi-user single-server ...

Through the deliberate arrangement of phase distribution on the surface, the array can undergo reconfiguration to achieve the desired EM functionalities. We take the ...

Web: <https://www.jolodevelopers.co.za>

