5g micro base station agent of 3D Communication

This paper is a pilot study of using 5G uplink physical layer channel sounding reference signals (SRSs) for 3D user equipment (UE) positioning. The 3D positioning capability is backed by the ...

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

To the best of our knowledge, this is the first time that graphene materials have been adopted to design conformal MMW multi-beam arrays for micro base station applications.

In this work, the subspace-based joint angle-time estimation and statistics-based expectation-maximization (EM) algorithms are investigated with the 3D signal manifold to ...

By taking into account millimeter wave use, any antenna types such as an array, reflector and dielectric lens antennas are possible for a base station application. In this paper, designs of ...

Abstract: This paper presents a novel compact low-profile dual-polarization base station antenna (or unit cell) designed for 5G mobile communications, which does not require ...

We select suitable candidate locations for building base stations on the ground and rooftop, and set restrictions on the height of base station towers. The use of existing base ...

Kyocera is leveraging its proprietary, globally developed telecommunications and virtualization technologies to bring base station functionality to general-purpose servers using ...

Abstract--We consider the problem of estimating the 3D ori-entation of a user, using the downlink mmWave

signals received from multiple base stations. We show that the received signals from ...

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 ...

Web: https://zonnepark-ampsen.online