

Serious obstacles to network communication and base stations

However, interference challenges due to simultaneous usage of the same spectrum in the different cells, dense deployment of base stations (BSs), and massive use of antennas and access points adversely ...

Despite their promise, NTN's bring significant technical and operational challenges. The dynamic movement and diversity of airborne and space stations complicate network orchestration.

Proximity of multiple base stations can lead to electromagnetic interference, which may affect the quality and reliability of wireless communication signals. Interference can result in dropped ...

Apr 13, 2025 · This paper discusses the site optimization technology of mobile communication network, especially in the aspects of enhancing coverage and optimizing base station layout.

One of the primary tasks for effective disaster relief after a catastrophic earthquake is robust communication. In this paper, we propose a simple logistic method based on two-parameter ...

While many people recognise the personal benefits of mobile services, local officials and the public may have concerns about the radio signals used by antenna sites and mobile devices. These concerns ...

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

In this paper, we review the characteristics and enabling technologies of non-terrestrial systems in the 6G landscape and shed light on the challenges in the field that are still open for future research.

Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic importance of ...

This article aims to identify the key challenges on BS ON-OFF switching and provide insights to its applications in 5G systems. We first analyze the technical aspects and challenges of ON-OFF ...



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