Base station three-dimensional communication

Can a 3D base station be used in next generation cellular networks?
IEEE Efficient 3-D placement of an aerial base station in next generation cellular networks. Paper presented at: 2016 IEEE International Conference on Communications (ICC).

Can two-dimensional mapping improve base station placement?
However, existing studies have predominantly focused on optimizing base station placement using two-dimensional mapping, yet they often overlook two critical factors: the shielding effect of buildings on signal propagation and the substantial influence of antenna height on coverage area and signal quality .

How are base stations based on ray-tracing based channel modeling?
Additionally,at their new locations,these behaviors are adjusted to facilitate accurate coverage estimation from the base stations they serve. In the deployment optimization of UAVs,the placement of base stations is determined using received signal strength dataobtained through the ray-tracing-based channel modeling technique.

How does a base station deployment method optimize the base station layout?
The base station deployment method proposed in this study dynamicallyoptimizes the base station layout based on annual environmental change characteristics.

We propose a novel systematic approach for the deployment optimization of unmanned aerial vehicles (UAVs). In this context, this study focuses on enhancing the ...

This article investigates a communication system assisted by multiple UAV-mounted base stations (BSs), aiming to minimize the number of required UAVs and to improve ...

We propose a novel systematic approach for the deployment optimization of unmanned aerial vehicles (UAVs). In this context, this study focuses on enhancing the coverage of UAV-mounted 6G mobile base ...

Recently, unmanned aerial vehicles (UAVs) have been reported a lot as aerial base stations (BSs) to assist wireless communication in Internet of Things (IoT). However, most ...

Channel theory is a fundamental theory of wireless communications. The sixth generation (6G) and beyond 6G (B6G) wireless communication networks are expected to ...

Abstract: Base station location selection and network optimization are critical to improving the performance of wireless communication networks in terms of latency reduction. ...

UAVs can be used as flying base stations without an infrastructure to improve coverage, capacity, line-of-sight (LoS) connection, and rate performance in wireless communication. Furthermore, UAVs ...

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