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Title: Millimeter wave base station communication distance

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To test the effects of base station cooperation, we compared the case of not using base station #2 in Fig. 4 (no base station cooperation) and the case of using all base stations (cooperation ...

To make full use of spectrum resource, this paper proposes a user association algorithm in multi-band millimeter wave network, which maximizes the weighted total rate of ...

As a result, we confirmed that the distance covered by millimeter wave base stations is at least 100 to 150 meters in most cases, and 200 to 250 meters on roads and ...

To address the above problems, we propose a novel beam management method for millimeter-wave mobile communications based on digital twin-enabled scenario cognition.

In this work, we propose a novel approach of BSs deployment for the next-generation 5G network in millimeter wave (mmWave) frequencies using meta-heuristic algorithms.

We focused on two signal integrity characteristics for A-RoF based millimeter-wave base stations: (1) for down-link transmission, Error Vector Magnitude (EVM) after transmission, and (2) for ...

The range or coverage from a 5G mmWave site is typically the line-of-sight distance to the receiving antenna. For 5G mmWave small cells placed on street furniture, such as bus ...

Accordingly, this study aims to characterize the lower and upper bounds on the density of mmWave NR BSs corresponding to full isolation and full mixing of slices at the NR ...

We take the programmable metasurface as the core to assist a millimeter-wave base station and validate its

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good performance for wireless communications in a realistic ...

Its transmission distance is about 200-300 meters, which means that a small base station needs to be installed at about 200 meters to enable smooth signal transmission.

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