Base station millimeter wave communication

For illustrating the potential of the proposed prototype in the application of a smart 6G base station, we take the proposed system to assist a millimeter-wave base station and ...

Abstract--This paper presents a novel embedded dual-band shared-aperture base station antenna, which can work in Sub-6 GHz and millimeter wave band simultaneously.

Therefore, this paper proposes a deep learning-based beam tracking scheme for mmWave aerial base stations. Simulation results show that our proposed schemes achieve ...

One application of novel antenna designs in millimeter-wave communication systems is in base station antenna design. With the increasing demand for high-speed data ...

Toward economical social implementation of wireless communication systems using millimeter-wave, which will be essential for broadband wireless communication in the 5G and 6G eras, ...

Abstract--We propose a blockage prediction and fast base station (BS) handover (BP-FBSH) scheme based on the ref-erence signal received power (RSRP) of the mobile terminal (MT) ...

To deal with these issues, we developed millimeter-wave base station cooperation technology to enable multiple base stations to cooperate with each other while suppressing inter-mobile ...

We propose a blockage prediction and fast base station (BS) handover (BP-FBSH) scheme based on the reference signal received power (RSRP) of the mobile terminal (MT) and the indices of ...

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

good performance for wireless communications in a realistic ...

This paper presents the design and analysis of an antenna array for high gain performance of future mm-wave 5G communication systems.

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