

Base station millimeter wave communication





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Blockage Prediction and Fast Handover of Base Station for ...

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

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Optimization of Millimeter-Wave Base Station Deployment in 5G ...

In the fifth-generation (5G) technology for broadband cellular networks, one of the striking problems is the millimeter wave (mmWave) transmission that enables high speed and low ...

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Bits to Beams: RF Technology Evolution for 5G ...

This article is organized into three major topics. In the first section, we will discuss some of the leading use cases for millimeter wave communications and set ...

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Improving Communication Performance in High-mobility ...

As part of these studies, we consider the provision of millimeter-wave high-speed communications over a wide area to multiple mobile stations traveling at high speed. In a high-mobility ...



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1mwh (500kw/1mw)

AIR COOLING
ENERGY STORAGE CONTAINER



A Smart Millimeter-Wave Base Station for 6G Application Based ...

Here, we propose a large-scale 2-bit millimeter-wave programmable metasurface to build an integrated smart base station framework for 6G communications. The meta-array is composed ...

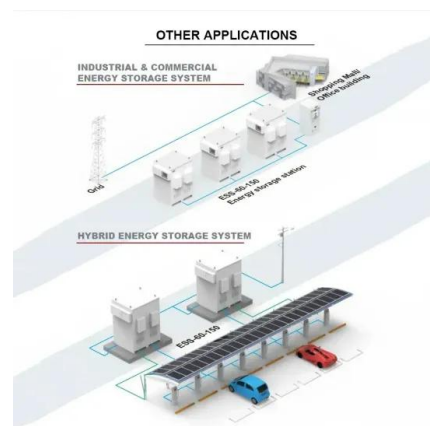
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[Unmanned Aerial Vehicle Base Station \(UAV-BS\) Deployment ...](#)

In this article, we consider a communication system with movable unmanned aerial vehicle-base stations in millimeter-Wave. The movable unmanned aerial vehicle-base stations are ...

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Development of Local 5G mmWave Base Station Using Software ...

The Nakao Laboratory at the University of Tokyo has previously developed small local 5G base stations using SDR, but the frequency band was previously limited to Sub6 and ...

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[The Role of Millimeter-Wave Technologies in 5G/6G Wireless](#)

In this paper, the relevant millimeter-wave enabling technologies are reviewed: they include the recent developments on the system architectures of active beamforming arrays, beamforming ...

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[Millimeter Wave Base Stations with Cameras: Vision Aided...](#)

Abstract--This paper investigates a novel research direction that leverages vision to help overcome the critical wireless communication challenges. In particular, this paper ...

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[Deep Learning for Moving Blockage Prediction using Real...](#)

Abstract--Millimeter wave (mmWave) communication is a key component of 5G systems and beyond. Such systems provide high bandwidth and high data rate but are sensitive to ...

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User Association and Resource Allocation Algorithm of Base Station ...

Zhang H, Huang S, Jiang C, et al. Energy efficient user association and power allocation in millimeter-wave-based ultra dense networks with energy harvesting base stations ...

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Bits to Beams: RF Technology Evolution for 5G Millimeter Wave ...

In the first section, we will discuss some of the leading use cases for millimeter wave communications and set the stage for the analysis that follows. In the second and third ...

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A smart millimeter-wave base station for 6G application based on

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 ...

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smart millimeter-wave base station for 6G application based on

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 ...

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INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



[Robust Beam-Tracking for mmWave Mobile Communications](#)

We propose a robust beam-tracking algorithm to maintain the communication link between a base station (BS) and a mobile station (MS) in a millimeter wave mobile ...

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Unmanned Aerial Vehicle Base Station (UAV-BS) Deployment ...

In this article, we consider millimeter-wave (mmWave) communication on a UAV platform, where the UAV base station (UAV-BS) serves multiple ground users, which generate ...

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INTEGRATED DESIGN EASY TO TRANSPORT AND INSTALL, FLEXIBLE DEPLOYMENT



Millimeter-Wave Small Cells: Base Station Discovery, Beam ...

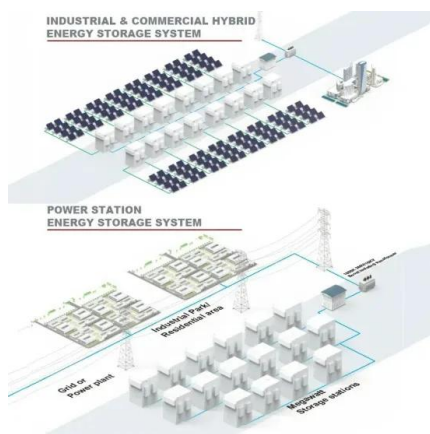
MmWave communications applied to small cells has been recognized recently as an important means to break the spectrum gridlock and to dramatically scale up the system ...

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Bits to Beams: RF Technology Evolution for 5G Millimeter Wave

In the first section, we will discuss some of the leading use cases for millimeter wave communications and set the stage for the analysis that follows. In the second and third ...

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Beam management for millimeter-wave mobile communications ...

We consider the millimeter-wave communication system scenario as shown in Fig. 1, where the base station (BS) and user equipment (UE) are equipped with antenna arrays of ...

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Blockage Prediction and Fast Handover of Base Station for ...

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) ...

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Improving Communication Performance in High-mobility Environments ...

As part of these studies, we consider the provision of millimeter-wave high-speed communications over a wide area to multiple mobile stations traveling at high speed. In a high-mobility ...

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[A Survey of Millimeter Wave \(mmWave\) Communications for...](#)

Abstract--With the explosive growth of mobile data demand, the fifth generation (5G) mobile network would exploit the enormous amount of spectrum in the millimeter wave (mmWave) ...

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Blockage Prediction and Fast Handover of Base Station for Millimeter

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

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