How do V2x and millimeter wave base stations communicate

With the growing adoption of 5G and its support for Vehicle-to-Everything (V2X) communications, beamformed vehicular communications at millimeter-wave (mmWave) bands are ...

In this paper, we introduce potential use cases of mmWave V2X communications. Also, we discuss technical challenges and design considerations for mmWave V2X beam management.

Millimeter-wave (mmWave) networking represents a core technol-ogy to meet the demanding bandwidth requirements of emerging connected vehicles. However, the feasibility of mmWave vehicle-to ...

Millimeter wave (mmWave) is envisioned as a promising frequency band for the next generation mobile, vehicular-to-everything (V2X) broadband wireless networks due to large spectrum resources available.

In this paper, we present the first comprehensive reality check of mmWave V2X networks. We deploy an experimental testbed to mimic a typical mmWave V2X scenario, and ...

The millimeter-wave (mmWave) band shows great promise to enable the high-data-rate links that are required or at least beneficial for such systems. To design such systems, we first need a detailed ...

To address this challenge, we propose a handover (HO) control scheme across multiple base stations (BSs), and evaluate two distinct approaches: cooperative transmission and null-space expansion.

In this context, our paper describes methods for deriving channel propagation models via ray-tracing simulations for mmWave transmissions with applications to vehicle-to-everything (V2X) commu ...

Millimeter wave is proving better reliability in C-V2X communication due to its better and sharper antenna beam as compared to microwave band. Ultimately, Millimeterwave is leading to ...

How do V2x and millimeter wave base stations communicate

Web: https://www.religio.es