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We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results ...

This experiment demonstrated that a terrestrial 5G network backhaul circuit by the overhead relay of 5G (NR system) can be established using 38-GHz band radio waves ...

For the first time in the world, KDDI Research successfully concluded a demonstration experiment (hereinafter referred to as "the demonstration") to establish IP level ...

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results provide a sufficient data rate to make an ...

In this paper, we investigated the observation and performance for millimeter-level ground deformation detection based on the CBS with Differential InSAR (D-InSAR) for the first ...

In this paper, the major work is to solve the "blind spot" of 5G existing network BSs. In other words, it aims to solve the signal coverage problem of weak coverage points on the ...

In this article, we propose an RIS-integrated base station (BS) by deploying an RIS sufficiently close to the base station antennas (BAs), within its radiative near-field range.

For the first time in the world, KDDI Research successfully concluded a demonstration experiment (hereinafter referred to as "the ...

This research highlights the importance of strategic frequency band selection for 5G BSs to optimize energy efficiency and meet the demands of evolving communication ...

In this paper, we investigated the observation and performance for millimeter-level ground deformation detection based on ...

This experiment demonstrates the performance of the multi-user communication-assisted set-up, highlighting the potential to enhance the channel capacity of 6G base stations ...

For the measurement of the electrical characteristics of the satellite and communication experiment using ETS-VIII satellite, was installed the Ka-band feeder link station and S-band ...

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