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Title: Base station communication signal detection method

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In this study, we aim to identify and address the security threats posed by rogue base stations in the IIoT. Our detection approach is based on reference signal received power (RSRP) analysis, which ...

In this paper, the multi-BS cooperative sensing method using communication signal, instead of the typical radar signals such as linear frequency modulated (LFM) signal and pulse signals, are proposed.

This method allows the UE to disconnect from the rogue station and reconnect to a legal base station. The connection recovery mechanism guarantees the integrity and security of the UE's ...

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 time.

3GPP defines radio frequency (RF) conformance test methods and requirements for NR base stations in TS 38.141, covering transmission, reception, and performance tests.

Aiming at improving the efficiency and the accuracy of the base station antenna inspection, a new method is proposed to use the deep learning algorithm YOLO v3 algorithm ...

Nonlinear soft bit detection is essential for the uplink receivers of 5G base stations, especially for users around the cell edge. However, its throughput and computing complexity are ...

In this paper, an SQRD-based K-best MIMO detector for 5G micro base stations is proposed which can be configured to complete the detection of high-order modulation (256QAM and ...

It is to design a wireless communication base station monitoring system based on artificial intelligence and

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network security.

Nonlinear soft bit detection is essential for the uplink receivers of 5G base stations, especially for users around the cell edge. However, its throughput and computing complexity are always...

When it is needed to receive a beacon signal sent from a base station, the conventional wireless communication circuit must be able to accurately wake up its analog and digital circuit...

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