

What is a base station monitoring system based on?

Research on Wireless Communication Base Station Monitoring System Based on Artificial Intelligence and Network Security
2.1 Research on Key Technologies of Wireless Communication
The communication of network is the fundamental of wireless communication .

Can a false base station detection technique be used in Mobile Communication Technology?

Nakarmi et al. (2021) proposed a false base station detection technique that could be used with any generation of mobile communication technology(Nakarmi et al.,2021).

What is a base station in telecommunications?

In telecommunications,base stations are a fixed transceiverthat is the main communication point for one or more wireless mobile client devices. Base Stations in cellular telephone networks are more commonly referred to as cell towers.

Why is network security important in wireless communication base station monitoring?

With the rapid popularization of the network,under the increasingly complex network security situation and the increasingly prominent network security problems,network security occupies an important field in the wireless communication base station monitoring system,and has become a hot research direction.

Abstract--With the support of integrated sensing and commu-nication (ISAC) technology, mobile communication system will integrate the function of wireless sensing, thereby facilitating new ...

To address this issue, we propose a new network function called the Measurement Report (MR) Verification Function (MRVF) which can detect false base stations and is compatible with the ...

In this paper, based on the 3GPP standard, a Precheck Sequence-based Detection (PSD) Scheme is proposed to secure the transition of legal base station (LBS) for UE. This scheme first ...

Driven by the intelligent applications of sixthgeneration (6G) mobile communication systems such as smart city and autonomous driving, which connect the physical and cyber space, ...

The journey towards a smarter, more efficient network starts with innovative base station design today. This comprehensive guide underscores the evolving role of wireless communications engineers in ...

Fake base stations comprise a critical security issue in mobile networking. A fake base station exploits vulnerabilities in the broadcast message announcing a base station's presence, ...

With the rapid popularization of the network, under the increasingly complex network security situation and the increasingly prominent network security problems, network security ...

1. Introduction Recently, with the rapid development of wireless communication technology, the enhancement of wireless network performance is concerned with meeting the ...

Our detection approach is based on reference signal received power (RSRP) analysis, which allows us to monitor and evaluate signal strength variations. Since rogue base stations often ...

Unfortunately, this scenario opens new security challenge against Fake base station, in which UEs can be at risk when transferred to these base stations. The aim of this study is to mitigate ...

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