

Communication Technology Base Station Signal Detection

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 .

What is a base station in telecommunications?

In telecommunications, base stations are a fixed transceiver that 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.

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).

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.

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

Abstract. This paper presented a new signal design method for target detection. As the development of communication equipment, wireless communication has gradually developed to high ...

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

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 ...

Integrated Sensing and Communication (ISAC) is an important trend for future communication networks. The Communication Base Station (CBS) can be used as a Ground-Based ...

In terms of signal optimization, we summarize peak-to-average power ratio (PAPR) optimization, interference management, and adaptive signal optimization for ISAC signals. This ...

We introduce a novel architecture that repurposes existing 3GPP signals--Synchronization Signal Blocks (SSBs) and Positioning Reference Signals (PRSs)--for monostatic sensing at base stations ...

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The Fifth-Generation (5G) technology is increasingly recognized as a key enabler for V2X applications, although large-scale commercial deployments remain in the early stages. Despite its ...

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