Communication project base station detection

Overview

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 .

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.

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 user equipment evade a fake base station attack after detection?

We also implemented and validated link routing to show that the user equipment can evade a fake base station attack after detection. In the implementation, we showed that our scheme reduces the fake base station availability threat impact from an infinite time duration (without our scheme defense) to only 2.93 2.93 s (with our scheme defense).

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We presented Murat, a network-based false base station detector, which is capable of detecting false base stations operating in multiple 3GPP Radio Access ...

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

To defend against a Sybil-capable fake base station, we use a history-reputation-based

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Abstract The threat posed by false base stations remains pertinent across the 4G, 5G, and forthcoming 6G generations of mobile communication. In response, this paper ...

To defend against a Sybil-capable fake base station, we use a history-reputation-based link routing scheme for routing and base station ...

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 ...

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A fake base station is a well-known security issue in mobile networking. The fake base station exploits the vulnerability in the broadcasting message announcing the base ...

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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. ...

However, the sustainability of such an environment is threatened by false base stations. False base stations execute attacks in the Radio Access Network (RAN) of cellular ...

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