

Various embodiments described herein describe a process for a UE to detect, and to indicate to the network, that a false base station may be in a vicinity of the UE. The network can act on...

Some rogue base stations may have advanced features allowing interception and alteration of communication content. As a result of unknown capabilities, there is a need to detect rogue base stations in order to better ...

In this paper, we design and build an anomaly detection system to detect such active injection threats to the victim user equipment's availability. Our detection ...

Introduce a native 5G network function that can detect false base stations using ML algorithms.

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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.

Detecting false base stations in mobile networks - the framework and describes some practical experiments we have performed in our lab

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 introduces a real-time detection method for ...

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.

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

In this paper, we have adopted a behavior rule specification-based false base station attack detection technique to establish a secure wireless network for the next-generation mobile communication ...

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