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Title: Communication Technology Base Station Signal Detection

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In this paper, we present a novel false base station attack detection system, leveraging behavior rule specification-based method tailored to the 5G ecosystem. Our proposed innovative ...

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

In this paper, a novel machine learning approach is proposed to identify the rogue base station in the mobile networks based on the key base station parameters.

We design and build a detection and blacklisting identification of the fake base station so that the user equipment can avoid the base station and move on to connecting to a legitimate base ...

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

Apparatus, methods, and computer-readable media for facilitating detection of false base stations based on signal times of arrival are disclosed herein. An example method for ...

Mobile networking in 4G and 5G remains vulnerable against fake base stations. A fake base station can inject and manipulate the ...

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) ...

Device-Assisted Network-Based Detection Device-Assisted Part Network-Based Part Experiments in Our Lab Road Ahead We ran some experiments with a 4G setup in one of our test labs, the Smartphone lab, which we will now describe from a rather technical perspective. The setup, shown in Figure 3, uses base stations of

Communication Technology Base Station Signal Detection

two network generations, 2G base stations called BTS, and 4G base stations called eNB. The purpose is to verify that a 4G network can be used to dete...See more on ericsson CISA[PDF]Location Detection of Rogue Base Stations/IMSI CatchersThe eventual goal of this technology, through additional validation processes, is to develop tools so industry can identify and confirm whether specific activities are cell sites or rogue base ...

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