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Title: How to solve base station communication anomaly

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Can a fake base station avoid detection?

Similar to many other detection-based schemes, there can be a fake base station that can avoid detection, i.e., it is not detected as a faulty base station, but that would result in the attacker reducing its availability threat impact and releasing the connectivity setup.

Can a novelty detection model detect a false base station?

By using such a novelty detection model in the past, we have shown that it is possible to detect unexpected values for the signal strengths of surrounding cells caused by the presence of a false base station.

Can machine learning detect false base stations?

We conducted experiments detecting false base stations in a 5G RAN simulator, comparing our system with seven machine learning-based detection techniques. The experimental results showed that our proposed system achieved a detection accuracy of 98% and demonstrated lower overhead compared to other algorithms.

1. Introduction

Can a base station establish a neighbor relationship with a new cell?

Upon identifying the new cell, the base station attempts to establish the neighbor relationship with the new cell. This is not possible when it is a FBS, as it is not connected to the real network. The failure in relationship establishment is used as a FBS detection method.

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In this paper, the major work is to solve the “blind spot” of 5G existing network BSs. In other words, it aims to solve the signal coverage problem of weak coverage points on the ...

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False base stations execute attacks in the Radio Access Network (RAN) of cellular systems, adversely affecting the network or its users. To address this challenge, we propose a ...

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Several AI techniques are employed in detecting anomalies associated with rogue base stations. Machine learning models, such as supervised and unsupervised learning, are ...

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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.

To improve the efficiency of FBS detection and prevention in cellular networks, we present our novel hybrid FBS detection method achieved by collaborating both the devices and network.

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