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Crow Search Optimization to Identify Adversary Nodes in Wireless Networks

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Abstract:
Adversary node detection systems have become a vital component due to the malware attacks. These systems are very important for network security due to internet's widespread development and increased accessibility to global data systems. This paper presents a Crow Search Optimization Algorithm (CSOA) to detect the adversary node in a wireless network. The Rivest, Shamir, Adleman (RSA) algorithm transmits secure data at first. It uses the public key to encrypt the data and the private key to decrypt the data and the adversary nodes can't access or modify the real data. One of the significant problems is when an unknown attack occurs on the network due to the high volume of data while the detection's accuracy and false alarm rate decline. The proposed system aims to improve accuracy by identifying the adversary nodes using CSOA algorithm. From the results, it is observed that the CSOA mechanism reduces the loss ratio and improves throughput of the network.

Published in: 2023 2nd International Conference on Edge Computing and Applications (ICECAA)

Date of Conference: 19-21 July 2023

Date Added to IEEE *Xplore*: 16 August 2023

DOI: 10.1109/ICECAA58104.2023.10212309

Publisher: IEEE

▸ **ISBN Information:** **Conference Location:** Namakkal, India

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I. Introduction

Wireless networks are essentially a collection of nodes dispersed over a wide region, allowing the needed data to be gathered [1]. However, nodes are also susceptible to attacks from malicious software, hackers, adversaries, defective hardware, natural phenomena, etc. Therefore, it is essential to defend a node from assault since if it does, the node's information could be inaccurate, resulting in inaccurate data analysis and limited conclusions [2]. Because wireless networks are transient and lack infrastructure, network anomalies are frequently prevalent. These abnormalities may have several causes, including faulty network hardware, network congestion, adversary, and active attacks. An acute anomaly known as intrusion threatens the network's availability and service integrity.

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