

Keywords

Metrics

More Like This

based intrusion detection system especially under the stress conditions of DDoS attacks. Simulation results show 97 % to 99 % of attack detection accuracy with no false positives. The R-IDPS is scalable for both large and heterogeneous IoT networks.

**Published in:** 2021 IEEE 18th International Conference on Smart Communities: Improving Quality of Life Using ICT, IoT and AI (HONET)

Date of Conference: 11-13 October INSPEC Accession Number:

2021 21509640

Date Added to IEEE Xplore: 30 DOI:

November 2021 10.1109/HONET53078.2021.9615449

▶ ISBN Information: Publisher: IEEE

► ISSN Information: Conference Location: Karachi,

Pakistan

Funding Agency:

## Contents

## I. Introduction

A great number of applications are based on Internet of Things (IoT) devices, this results in the development and customization of related conventional technologies. This makes the IoT devices prone to cyber-attacks; and has become very challenging these days to guard IoT devices from these attacks. Formally, the conventional IDSs are not suitable for deployment in IoT devices because of resource constraints in terms of storage, processing power, and energy consumption. However, almost most of the mobile traffic data will originate from smart devices by the end of 2022 [1]. One of the limitations of Signature based approach is to detect new kinds of attacks. However anomaly detection systems using statistical techniques are more effective to detect the new attacks, the problem of the high false-positive rate is one of the main challenges [2], [3].

Authors	•
Figures	~
References	~
Keywords	~
Metrics	~

IEEE Personal Account Purchase Details Profile Information Need Help? Follow

PROFESSION AND

EDUCATION

WORLDWIDE: +1 732 981

0060

TECHNICAL INTERESTS CONTACT & SUPPORT

About IEEE *Xplore* | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | IEEE Ethics Reporting 🗹 | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2022 IEEE - All rights reserved.

IEEE Account	Purchase Details	Profile Information	Need Help?
» Change Username/Password	» Payment Options	» Communications Preferences	» US & Canada: +1 800 678 4333
» Update Address	» Order History	» Profession and Education	» Worldwide: +1 732 981 0060
	» View Purchased Documents	» Technical Interests	» Contact & Support

About IEEE Xplore | Contact Us | Help | Accessibility | Terms of Use | Nondiscrimination Policy | Sitemap | Privacy & Opting Out of Cookies

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. © Copyright 2022 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.