

## A Hierarchical Intrusion Detection System Design And

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[A Hierarchical Intrusion Detection System International Journal on Cloud Computing: Services and Architecture \(IJCCSA\), Vol.2, No.6, December 2012 DOI : 10.5121/ijccsa.2012.2601 1 A HIERARCHICAL INTRUSION DETECTION SYSTEM FOR CLOUDS: DESIGN AND EVALUATION Hisham A. Kholidy <sup>1</sup>, Fabrizio Baiardi <sup>2</sup> and Salim Hariri <sup>3</sup>](#)

A HIERARCHICAL INTRUSION DETECTION SYSTEM : DESIGN AND ...

The anomaly detection model using one-class support vector machine (OCSVM) is able to detect malicious control instructions by analyzing the key field in EtherNet/IP packets. The experimental results show that the hierarchical IDS has an outstanding performance in detecting infiltration attacks and forging attack compared with other two innovative IDSs.

A Hierarchical Intrusion Detection System for Industrial ...

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A Novel Hierarchical Intrusion Detection System Based on Decision Tree and Rules-Based Models Abstract: This paper proposes a novel intrusion detection system (IDS) that combines different classifier approaches which are based on decision tree and rules-based concepts, namely, REP Tree, JRip algorithm and Forest PA.

A Novel Hierarchical Intrusion Detection System Based on ...

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(PDF) A Novel Hierarchical Intrusion Detection System ...

Purely based on a hierarchy of self-organizing feature maps (SOMs), an approach to network intrusion detection is investigated. Our principle interest is to establish just how far such an approach...

A hierarchical SOM-based intrusion detection system ...

Purely based on a hierarchy of self-organizing feature maps (SOMs), an approach to network intrusion detection is investigated. Our principle interest is to establish just how far such an approach can be taken in practice. To do so, the KDD benchmark data set from the International Knowledge Discovery and Data Mining Tools Competition is employed.

A hierarchical SOM-based intrusion detection system ...

Luttrell, S.P., 1989. Hierarchical vector quantization. IEE Proceedings I-Communications, Speech and Vision 136(6), 405-413. Google Scholar Cross Ref; McHugh, 2001. Testing intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory.

A hierarchical SOM-based intrusion detection system ...

A Novel Hierarchical Intrusion Detection System based on Decision Tree and Rules-based Models Ahmed Ahmim<sup>1</sup>, Leandros Maglaras<sup>2</sup>, Mohamed Amine Ferrag<sup>3</sup>, Makhlof Derdour<sup>1</sup>, Helge Janicke<sup>2</sup> Abstract—This paper proposes a novel intrusion detection system (IDS) that combines different classifier approaches which

A Novel Hierarchical Intrusion Detection System based on ...

to detect intrusion by hierarchical wireless sensor networks and to estimate the effect of intrusion detection. The primary experiment proves that isolation table intrusion detection can prevent attacks effectively. Index Terms—Wireless Sensor Networks, Intrusion Detection, Anomaly Detection, Attack Behaviors, Countermeasures I. INTRODUCTION

An Isolation Intrusion Detection System for Hierarchical ...

A Hierarchical Detection and Response System to Enhance Security Against Lethal Cyber-Attacks in UAV Networks Abstract: Unmanned aerial vehicles (UAVs) networks have not yet received considerable research attention. Specifically, security issues are a major concern because such networks, which carry vital information, are prone to various attacks.

A Hierarchical Detection and Response System to Enhance ...

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This can be done by sending large amounts of network traffic, exploiting well-known faults in networking services, and by overloading network hosts. Intrusion Detection attempts to detect computer attacks by examining various data records observed in processes on the network and it is split into two groups, anomaly detection systems and misuse detection systems. Anomaly detection is an attempt to search for malicious behavior that deviates from established normal patterns. Misuse detection ...

A new intrusion detection system using support vector ...

In this paper, we propose a hierarchical IDS based on the original symmetrical combination of machine learning approach with knowledge-based approach to support detection of existing types and severity of new types of network attacks.

Hierarchical Intrusion Detection Using Machine Learning ...

After a five-level RBF-based hierarchical intrusion detection system was generated adaptively during the training stage, the SHIDS was tested using the testing data, which included NORMAL, IPSWEEP, SMURF, GUESS\_PASSWORD, and BUFFER\_OVERFLOW data. The results are presented in Table 3. It shows that the SHIDS has both a high detection rate, low false positive rate, and can automatically detect and classify novel intrusions.

Intrusion detection using hierarchical neural networks ...

Reducing The Data Features For Intrusion Detection Systems Using Gmm The current intrusion detections aiming at the web server attack all adopt the rule-based method, like the famous intrusion detecting system Snort2.0, which detection rules are written after the features are refined from every intrusion behavior.

Intrusion Detection System Using Hierarchical GMM and ...

The existing techniques applied the single hierarchical system to enhance intrusion detection based on anomalies. In order to enhance detection precisely under a controlled framework, Peddabachigari et al. [30] employed the support vector machines (SVMs), decision trees (DT), and a fusion classifier of DT-SVM. The group of three incorporated into a hierarchy of classifier.

Soft-computing-based false alarm reduction for ...

The hierarchical task analysis were developed using the following steps: □ Observing the use of intrusion detection systems in a medium sized organization. □ Studying commonly used intrusion detection techniques in the industry. □ Interviewing network security specialists.

Hierarchical Task Analysis of Intrusion Detection Systems

Otrok et al. have proposed a hierarchical approach [6] that attempts to balance the consumption of resources (which results from intrusion detection tasks) among the nodes of a cluster. It encourages network nodes to participate in the election of CHs and tries to prevent elected CHs from misbehaving. One of the main operational

A Mobility and Energy-aware Hierarchical Intrusion ...

main contribution of this architecture is its hierarchical structure; i.e. it is designed

and applicable, in one, two or three levels, consistent to the application domain and its required security level. Focus of this paper is on the clustering WSNs, designing and deploying Sensor-based Intrusion Detection System (SIDS) on sensor

A High-level Architecture for Intrusion Detection on ...

Figure 6. (a): Architecture of the Proposed Intrusion Detection System on Online-Banking systems-side; (b): Data Flow in the Proposed Intrusion Detection System - "Designing a New Security Architecture for Online-Banking : A Hierarchical Intrusion Detection Architecture and Intrusion Detection System"

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