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## **Malware Detection Using Assembly And**

Malware detection using assembly and  
API call sequences 109 Why does code  
obfuscation exist if it is that bad? As with  
everything else in the world, there are

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always the good side and the bad side. From a legitimate user's point of view, we can expect this scenario: he or she wants to protect his or her work. A software company may not want their adversaries

## **Malware detection using assembly and API call sequences**

One of the major problems concerning

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information assurance is malicious code. To evade detection, malware has also been encrypted or obfuscated to produce variants that continue to plague properly defended and patched networks with zero day exploits. With malware and malware authors using obfuscation techniques to generate automated polymorphic and

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metamorphic versions, anti-virus  
software ...

## **Malware detection using assembly and API call sequences ...**

At present, a number of malware  
detection methods combined with  
machine learning techniques have been  
proposed. Reference [ ] first proposed a

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malware detection method using data mining technique, which use three different types of static features: PE header, string sequence, and byte sequence Kolter and Maloof []. proposed to use n-gram instead of byte sequence and compared the performance of ...

## **Malware Detection with LSTM using**



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Malware detection using assembly code and control flow graph optimization.

Pages 1-4. Previous Chapter Next

Chapter. **ABSTRACT.** Malware detection is a crucial aspect of software security. A malware detector is a system that attempts to determine whether a program has malicious intent.

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## **Malware detection using assembly code and control flow ...**

The signature-based malware detection has two main methods for applying malware detection approach in machine learning methods including assembly features and binary features. Figure 2 illustrates a standard signature-based

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malware detection framework using data mining approaches.

## **A state-of-the-art survey of malware detection approaches ...**

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To evade detection, malware has also been ...

## **Malware detection using assembly and API call sequences ...**

Heuristic metamorphic malware  
detection based on statistics of  
assembly instructions using  
classification algorithms Abstract: The

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competition between malware creators and those who work on malware detection, led to emergence and development of multifarious techniques for both creation and detection.

## **Heuristic metamorphic malware detection based on ...**

Malware detection methods systems,

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and apparatus are described. Malware may be detected by obtaining a plurality of malware binary executables and a plurality of goodware binary executables, decompiling the plurality of malware binary executables and the plurality of goodware binary executable to extract corresponding assembly code for each of the plurality of malware

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binary executables and ...

## **MALWARE ANALYSIS AND DETECTION USING GRAPH-BASED ...**

1. Introduction. Early-stage detection and prevention of malware is a big issue of cyber security. Signature-based detection methodologies were initially mainstream in this area .However,

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malware developers are now able to bypass these detection mechanisms using metamorphism and polymorphism methods , .Recently, machine-learning methods have been applied to malware detection to address this ...

## **Malware-Detection Method with a Convolutional Recurrent ...**



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To validate the performance of fake data generation and the detection performance of the tDCGAN, we used the malware dataset from the Kaggle Microsoft Malware Classification Challenge. 4 The malware data were written in assembly and binary codes, and we used the form of the binary code.

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## **Zero-day malware detection using transferred generative ...**

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@article{Shankarapani2010MalwareDU,  
title={Malware detection using  
assembly and API call sequences},  
author={M. K. Shankarapani and S.

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Ramamoorthy and Ram S. Movva and S. Mukkamala}, journal={Journal in Computer Virology}, year={2010}, volume={7}, pages={107-119} }

## **[PDF] Malware detection using assembly and API call ...**

Features used in machine learning-based malware detection can be divided

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into three subcategories: 1) using a lower-level machine or assembly code and 2) using higher-level API calls, system logs, and events generated by applications and 3) combination of the two categories.

## 2.1. Low-Level Machine or Assembly Code

## **Malware Detection for Forensic**

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Malware comes in many forms, but one thing's for sure—you don't want it attacking your computer. We've tested nearly 100 anti-malware apps to help you find the the best malware protection and ...

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Download Citation | Malware detection using assembly code and control flow graph optimization | Malware detection is a crucial aspect of software security. A malware detector is a system that ...

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The huge influx of malware variants are generated using packing and obfuscating techniques. Current antivirus software use byte signature to identify known malware, and this method is easy to be deceived and generally ineffective for identifying malware variants. Antivirus experts use hash signature to verify if captured

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sample is one of the malware databases, and this method cannot recognize ...

### **A Malware and Variant Detection Method Using Function Call ...**

Malware, such as a virus or trojan horse, refers to software designed specifically to gain unauthorized access to a computer system and perform malicious



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activities. To analyze a piece of malware, one may employ a reverse engineering approach to perform an in-depth analysis on the assembly code of a malware. Yet, the reverse engineering process is tedious and time consuming.

**[PDF] Assembly Code Clone  
Detection for Malware Binaries ...**

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behavior-based malware detection methods are quite time-consuming and require considerable attention to protect the operating environment from contaminated. At present, a number of malware detection methods combined with machine learning techniques have been proposed. Reference [7] first proposed a malware detection method

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## **Malware Detection with LSTM using Opcode Language**

SeqMobile: An Efficient Sequence-Based  
Malware Detection System Using RNN on  
Mobile Devices Ruitao Feng yz, Jing  
Qiang Lim , Sen Chenxz, Shang-Wei Linz,  
and Yang Liuz zSchool of Computer

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Science and Engineering, Nanyang  
Technological University, Singapore  
xCollege of Intelligence and Computing,  
Tianjin University, China Abstract—With  
the proliferation of Android malware, the

## **SeqMobile: An Efficient Sequence- Based Malware Detection ...**

Malware, such as a virus or trojan horse,

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refers to software designed specifically to gain unauthorized access to a computer system and perform malicious activities. To analyze a piece of malware, one may employ a reverse engineering approach to perform an in-depth analysis on the assembly code of a malware. Yet, the reverse engineering process is tedious and time consuming.

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