Data Mining Tools for Malware Detection

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Mehedy Masud, Latifur Khan, and Bhavani Thuraisingham

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AN AUERBACH BOOK

Data Mining Tools For Malware Detection

Mehedy Masud,Latifur Khan,Bhavani Thuraisingham

Data Mining Tools For Malware Detection:

    Data Mining Tools for Malware Detection Mehedy Masud,Latifur Khan,Bhavani Thuraisingham,2016-04-19 Although the use of data mining for security and malware detection is quickly on the rise most books on the subject provide high level theoretical discussions to the near exclusion of the practical aspects Breaking the mold Data Mining Tools for Malware Detection provides a step by step breakdown of how to develop data mining tools for malware detection Integrating theory with practical techniques and experimental results it focuses on malware detection applications for email worms malicious code remote exploits and botnets The authors describe the systems they have designed and developed email worm detection using data mining a scalable multi level feature extraction technique to detect malicious executables detecting remote exploits using data mining and flow based identification of botnet traffic by mining multiple log files For each of these tools they detail the system architecture algorithms performance results and limitations Discusses data mining for emerging applications including adaptable malware detection insider threat detection firewall policy analysis and real time data mining Includes four appendices that provide a firm foundation in data management secure systems and the semantic web Describes the authors tools for stream data mining From algorithms to experimental results this is one of the few books that will be equally valuable to those in industry government and academia It will help technologists decide which tools to select for specific applications managers will learn how to determine whether or not to proceed with a data mining project and developers will find innovative alternative designs for a range of applications   *Secure Data Science* Bhavani Thuraisingham,Murat Kantarcioglu,Latifur Khan,2022-04-27 Secure data science which integrates cyber security and data science is becoming one of the critical areas in both cyber security and data science This is because the novel data science techniques being developed have applications in solving such cyber security problems as intrusion detection malware analysis and insider threat detection However the data science techniques being applied not only for cyber security but also for every application area including healthcare finance manufacturing and marketing could be attacked by malware Furthermore due to the power of data science it is now possible to infer highly private and sensitive information from public data which could result in the violation of individual privacy This is the first such book that provides a comprehensive overview of integrating both cyber security and data science and discusses both theory and practice in secure data science After an overview of security and privacy for big data services as well as cloud computing this book describes applications of data science for cyber security applications It also discusses such applications of data science as malware analysis and insider threat detection Then this book addresses trends in adversarial machine learning and provides solutions to the attacks on the data science techniques In particular it discusses some emerging trends in carrying out trustworthy analytics so that the analytics techniques can be secured against malicious attacks Then it focuses on the privacy threats due to the collection of massive amounts of data and potential solutions Following a discussion on the integration of services computing

including cloud based services for secure data science it looks at applications of secure data science to information sharing and social media This book is a useful resource for researchers software developers educators and managers who want to understand both the high level concepts and the technical details on the design and implementation of secure data science based systems It can also be used as a reference book for a graduate course in secure data science Furthermore this book provides numerous references that would be helpful for the reader to get more details about secure data science

Analyzing and Securing Social Networks Bhavani Thuraisingham,Satyen Abrol,Raymond Heatherly,Murat Kantarcioglu,Vaibhav Khadilkar,Latifur Khan,2016-04-06 Analyzing and Securing Social Networks focuses on the two major technologies that have been developed for online social networks OSNs i data mining technologies for analyzing these networks and extracting useful information such as location demographics and sentiments of the participants of the network and ii security and privacy technolo *Developing and Securing the Cloud* Bhavani Thuraisingham,2013-10-28 Although the use of cloud computing platforms and applications has expanded rapidly most books on the subject focus on high level concepts There has long been a need for a book that provides detailed guidance on how to develop secure clouds Filling this void Developing and Securing the Cloud provides a comprehensive overview of cloud computing t **Wireless Channel Modeling and Malware Detection Using Statistical and Information-theoretic Tools** Syed Ali Khayam,2006 **Data Mining, Intrusion Detection, Information Assurance, and Data Networks Security ...** ,2007 *Behavior-based Malware Detection* Mihai Christodorescu,2007 **Big Data Analytics with Applications in Insider Threat Detection** Bhavani Thuraisingham,Pallabi Parveen,Mohammad Mehedy Masud,Latifur Khan,2017-11-22 Today s malware mutates randomly to avoid detection but reactively adaptive malware is more intelligent learning and adapting to new computer defenses on the fly Using the same algorithms that antivirus software uses to detect viruses reactively adaptive malware deploys those algorithms to outwit antivirus defenses and to go undetected This book provides details of the tools the types of malware the tools will detect implementation of the tools in a cloud computing framework and the applications for insider threat detection *Automating Malware Detection by Inferring Intent* Weidong Cui,2006 **Data Mining Methods for Malware Detection** Muazzam Siddiqui,2008 This research investigates the use of data mining methods for malware malicious programs detection and proposed a framework as an alternative to the traditional signature detection methods The traditional approaches using signatures to detect malicious programs fails for the new and unknown malwares case where signatures are not available We present a data mining framework to detect malicious programs We collected analyzed and processed several thousand malicious and clean programs to find out the best features and build models that can classify a given program into a malware or a clean class Our research is closely related to information retrieval and classification techniques and borrows a number of ideas from the field We used a vector space model to represent the programs in our collection Our data mining framework includes two separate and distinct classes of experiments The first are the supervised

learning experiments that used a dataset consisting of several thousand malicious and clean program samples to train validate and test an array of classifiers In the second class of experiments we proposed using sequential association analysis for feature selection and automatic signature extraction With our experiments we were able to achieve as high as 98 4% detection rate and as low as 1 9% false positive rate on novel malwares   <u>Data Science for Malware Analysis</u> Shane Molinari,2023-12-15 Unlock the secrets of malware data science with cutting edge techniques AI driven analysis and international compliance standards to stay ahead of the ever evolving cyber threat landscape Key Features Get introduced to three primary AI tactics used in malware and detection Leverage data science tools to combat critical cyber threats Understand regulatory requirements for using AI in cyber threat management Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s world full of online threats the complexity of harmful software presents a significant challenge for detection and analysis This insightful guide will teach you how to apply the principles of data science to online security acting as both an educational resource and a practical manual for everyday use Data Science for Malware Analysis starts by explaining the nuances of malware from its lifecycle to its technological aspects before introducing you to the capabilities of data science in malware detection by leveraging machine learning statistical analytics and social network analysis As you progress through the chapters you ll explore the analytical methods of reverse engineering machine language dynamic scrutiny and behavioral assessments of malicious software You ll also develop an understanding of the evolving cybersecurity compliance landscape with regulations such as GDPR and CCPA and gain insights into the global efforts in curbing cyber threats By the end of this book you ll have a firm grasp on the modern malware lifecycle and how you can employ data science within cybersecurity to ward off new and evolving threats What you will learn Understand the science behind malware data and its management lifecycle Explore anomaly detection with signature and heuristics based methods Analyze data to uncover relationships between data points and create a network graph Discover methods for reverse engineering and analyzing malware Use ML advanced analytics and data mining in malware data analysis and detection Explore practical insights and the future state of AI s use for malware data science Understand how NLP AI employs algorithms to analyze text for malware detection Who this book is for This book is for cybersecurity experts keen on adopting data driven defense methods Data scientists will learn how to apply their skill set to address critical security issues and compliance officers navigating global regulations like GDPR and CCPA will gain indispensable insights Academic researchers exploring the intersection of data science and cybersecurity IT decision makers overseeing organizational strategy and tech enthusiasts eager to understand modern cybersecurity will also find plenty of useful information in this guide A basic understanding of cybersecurity and information technology is a prerequisite
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