



Shubha Puthran  
Ketan Shah

# Intrusion Detection System using datamining techniques

Parallel Approaches Using WEKA Tool

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# Intrusion Detection System Using Data Mining Techniques

**Mehedy Masud, Latifur Khan, Bhavani  
Thuraisingham**



## **Intrusion Detection System Using Datamining Techniques:**

Feature Selection for Intrusion Detection Systems Kumar Yogesh, Kumar Krishan, Kumar Gulshan, 2014-01 Network security is a serious global concern. The increasing prevalence of malware and incidents of attacks hinders the utilization of the Internet to its greatest benefit and incur significant economic losses. The traditional approaches in securing systems against threats are designing mechanisms that create a protective shield almost always with vulnerabilities. This has created Intrusion Detection Systems to be developed that complement traditional approaches. However, with the advancement of computer technology, the behavior of intrusions has become complex that makes the work of security experts hard to analyze and detect intrusions. In order to address these challenges, data mining techniques have become a possible solution. However, the performance of data mining algorithms is affected when no optimized features are provided. This is because complex relationships can be seen as well between the features and intrusion classes contributing to high computational costs in processing tasks, subsequently leading to delays in identifying intrusions. Feature selection is thus important in detecting intrusions by allowing the data mining system to focus on what is really important. *Applications of Data Mining in Computer Security* Daniel Barbará, Sushil Jajodia, 2002-05-31 Data mining is becoming a pervasive technology in activities as diverse as using historical data to predict the success of a marketing campaign, looking for patterns in financial transactions to discover illegal activities, or analyzing genome sequences. From this perspective, it was just a matter of time for the discipline to reach the important area of computer security. *Applications Of Data Mining In Computer Security* presents a collection of research efforts on the use of data mining in computer security. Data mining has been loosely defined as the process of extracting information from large amounts of data. In the context of security, the information we are seeking is the knowledge of whether a security breach has been experienced and if the answer is yes, who is the perpetrator. This information could be collected in the context of discovering intrusions that aim to breach the privacy of services data in a computer system, or alternatively in the context of discovering evidence left in a computer system as part of criminal activity. *Applications Of Data Mining In Computer Security* concentrates heavily on the use of data mining in the area of intrusion detection. The reason for this is twofold. First, the volume of data dealing with both network and host activity is so large that it makes it an ideal candidate for using data mining techniques. Second, intrusion detection is an extremely critical activity. This book also addresses the application of data mining to computer forensics. This is a crucial area that seeks to address the needs of law enforcement in analyzing the digital evidence. *Applications Of Data Mining In Computer Security* is designed to meet the needs of a professional audience composed of researchers and practitioners in industry and graduate level students in computer science. **Intrusion Detection System Using Datamining Techniques** Shubha Puthran, Ketan Shah, 2012-05 Security is a big issue for all networks, including defense and government infrastructure. Attacks on network infrastructure are threats against the information security. The Intrusion detection system (IDS) is one that scans incoming

data activities and attempt to detect the intrusions The classification algorithms in IDS are used to categorize the well known large variety of intrusions In recent years data mining based IDS have executed good performance Still challenges exist in the design and implementation of quality IDSs The goal of this classification and clustering based IDS system is to decrease the False alarm rates and increase the accuracy

**Improving Intrusion Detection Systems Using Data Mining Techniques** Abdulrazaq Z. Almutairi,2016 Intrusion Detection System Using Data Mining Technique \ Journal of the ACS Naelah Okasha,2010 *Intrusion Detection in Mobile Phone Systems Using Data Mining Techniques* Bharat Kumar Addagada,2010 **Data Mining Techniques in Cyber Security** Jimish Jitendra Kadakia,2015 With the innovation in technology and increasing global infrastructure for Data Mining and Machine Learning in Cybersecurity Sumeet Dua,Xian Du,2016-04-19 With the rapid advancement of information discovery techniques machine learning and data mining continue to play a significant role in cybersecurity Although several conferences workshops and journals focus on the fragmented research topics in this area there has been no single interdisciplinary resource on past and current works and possible *Novel Algorithms and Techniques in Telecommunications and Networking* Tarek Sobh,Khaled Elleithy,Ausif Mahmood,2010-01-30 *Novel Algorithms and Techniques in Telecommunications and Networking* includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking *Novel Algorithms and Techniques in Telecommunications and Networking* includes selected papers form the conference proceedings of the International Conference on Telecommunications and Networking TeNe 08 which was part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2008

**Intrusion Detection: A Machine Learning Approach** Jeffrey J P Tsai,Zhenwei Yu,2011-01-03 This important book introduces the concept of intrusion detection discusses various approaches for intrusion detection systems IDS and presents the architecture and implementation of IDS It emphasizes on the prediction and learning algorithms for intrusion detection and highlights techniques for intrusion detection of wired computer networks and wireless sensor networks The performance comparison of various IDS via simulation will also be included

**Machine Learning and Data Mining for Computer Security** Marcus A. Maloof,2006-02-27 *Machine Learning and Data Mining for Computer Security* provides an overview of the current state of research in machine learning and data mining as it applies to problems in computer security This book has a strong focus on information processing and combines and extends results from computer security The first part of the book surveys the data sources the learning and mining methods evaluation methodologies and past work relevant for computer security The second part of the book consists of articles written by the top researchers working in this area These articles deals with topics of host based intrusion detection through the analysis of audit trails of command sequences and of system calls as well as network intrusion detection through the analysis of TCP packets and the detection of malicious executables This book fills the

great need for a book that collects and frames work on developing and applying methods from machine learning and data mining to problems in computer security

**Emerging Trends in Expert Applications and Security** Vijay Singh Rathore, Marcel Worring, Durgesh Kumar Mishra, Amit Joshi, Shikha Maheshwari, 2018-11-19 The book covers current developments in the field of expert applications and security which employ advances of next generation communication and computational technology to shape real world applications It gathers selected research papers presented at the ICETEAS 2018 conference which was held at Jaipur Engineering College and Research Centre Jaipur India on February 17 18 2018 Key topics covered include expert applications and artificial intelligence information and application security advanced computing multimedia applications in forensics security and intelligence and advances in web technologies implementation and security issues

*Data Mining Tools for Malware Detection* Mehedy Masud, Latifur Khan, Bhavani Thuraisingham, 2011-12-07 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

*Data Mining Approaches for Intrusion Detection*, 2000 In this paper we discuss our research in developing general and systematic methods for intrusion detection The key ideas are to use data mining techniques to discover consistent and useful patterns of system features that describe program and user behavior and use the set of relevant system features to compute inductively learned classifiers that can recognize anomalies and known intrusions Using experiments on the sendmail system call data and the network tcpdump data we demonstrate that we can construct concise and accurate classifiers to detect anomalies We provide an overview on two general data mining algorithms that we have implemented the association rules algorithm and the frequent episodes algorithm These algorithms can be used to compute the intra and inter audit record

patterns which are essential in describing program or user behavior *Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB)* Durai Pandian,Xavier Fernando,Zubair Baig,Fuqian Shi,2019-01-01 These are the proceedings of the International Conference on ISMAC CVB held in Palladam India in May 2018 The book focuses on research to design new analysis paradigms and computational solutions for quantification of information provided by object recognition scene understanding of computer vision and different algorithms like convolutional neural networks to allow computers to recognize and detect objects in images with unprecedented accuracy and to even understand the relationships between them The proceedings treat the convergence of ISMAC in Computational Vision and Bioengineering technology and includes ideas and techniques like 3D sensing human visual perception scene understanding human motion detection and analysis visualization and graphical data presentation and a very wide range of sensor modalities in terms of surveillance wearable applications home automation etc ISMAC CVB is a forum for leading academic scientists researchers and research scholars to exchange and share their experiences and research results about all aspects of computational vision and bioengineering Cloud Computing Technologies for Smart Agriculture and Healthcare Urmila Shrawankar,Latesh Malik,Sandhya Arora,2021-12-28

The Cloud is an advanced and fast growing technology in the current era The computing paradigm has changed drastically It provided a new insight into the computing world with new characteristics including on demand virtualization scalability and many more Utility computing virtualization and service oriented architecture SoA are the key characteristics of Cloud computing The Cloud provides distinct IT services over the web on a pay as you go and on demand basis Cloud Computing Technologies for Smart Agriculture and Healthcare covers Cloud management and its framework It also focuses how the Cloud computing framework can be integrated with applications based on agriculture and healthcare Features Contains a systematic overview of the state of the art basic theories challenges implementation and case studies on Cloud technology Discusses of recent research results and future advancement in virtualization technology Focuses on core theories architectures and technologies necessary to develop and understand the computing models and its applications Includes a wide range of examples that uses Cloud technology for increasing farm profitability and sustainable production Presents the farming industry with Cloud technology that allows it to aggregate analyze and share data across farms and the world Includes Cloud based electronic health records with privacy and security features Offers suitable IT solutions to the global issues in the domain of agriculture and health care for society This reference book is aimed at undergraduate and post graduate programs It will also help research scholars in their research work This book also benefits like scientists business innovators entrepreneurs professionals and practitioners

**Cyber Security for Next-Generation Computing Technologies** Inam Ullah Khan,Mariya Ouaisa,Mariyam Ouaisa,Zakaria Abou El Houda,Muhammad Fazal Ijaz,2024-01-16 This book sheds light on the cyber security challenges associated with nextgeneration computing technologies,emphasizing the serious threats posed to individuals businesses and

nations With everything becoming increasingly interconnected via the Internet data security becomes paramount As technology advances people need to secure their data communication processes Personal data security including data integrity and confidentiality is particularly vulnerable Therefore the concept of cyber security forensics emerges to ensure data security for everyone addressing issues such as data control hijacking and threats to personal devices such as mobile phones laptops and other smart technologies This book covers key topics related to cyber security in next generation computing technologies ultimately enhancing the quality of life for citizens facilitating interaction with smart governments and promoting secure communication processes

**KEY FEATURES** Highlights innovative principles and practices using next generation computing technologies based cybersecurity Presents an introduction to recent trends regarding the convergence of AI ML in cybersecurity Offers an overview of theoretical practical simulation concepts of cybersecurity

**Second International Conference on Computer Networks and Communication Technologies** S. Smys, Tomonobu Senjyu, Pavel Lafata, 2020-01-21 This book presents new communication and networking technologies an area that has gained significant research attention from both academia and industry in recent years It also discusses the development of more intelligent and efficient communication technologies which are an essential part of current day to day life and reports on recent innovations in technologies architectures and standards relating to these technologies The book includes research that spans a wide range of communication and networking technologies including wireless sensor networks big data Internet of Things optical and telecommunication networks artificial intelligence cryptography next generation networks cloud computing and natural language processing Moreover it focuses on novel solutions in the context of communication and networking challenges such as optimization algorithms network interoperability scalable network clustering multicasting and fault tolerant techniques network authentication mechanisms and predictive analytics

*Artificial Intelligence and Applied Mathematics in Engineering Problems* D. Jude Hemanth, Utku Kose, 2020-01-03 This book features research presented at the 1st International Conference on Artificial Intelligence and Applied Mathematics in Engineering held on 20-22 April 2019 at Antalya Manavgat Turkey In today's world various engineering areas are essential components of technological innovations and effective real world solutions for a better future In this context the book focuses on problems in engineering and discusses research using artificial intelligence and applied mathematics Intended for scientists experts M Sc and Ph D students postdocs and anyone interested in the subjects covered the book can also be used as a reference resource for courses related to artificial intelligence and applied mathematics

IDDM Tamas Abraham, Electronics and Surveillance Research Laboratory (Australia). Information Technology Division, 2001 The IDDM project aims to determine the feasibility and effectiveness of data mining techniques in real time intrusion detection and produce solutions for this purpose Traditionally data mining is designed to operate on large off line data sets Previous attempts to apply the discipline in real time environments met with varying success In this paper the author overviews earlier attempts to employ data mining principles in intrusion detection

and present a possible system architecture for this purpose As a consequence it is shown that by combining data mining algorithms with agent technologies near real time operation may be attained

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