Data Mining And Machine Learning In Cybersecurity

Daniel Barbará,Sushil Jajodia

Data Mining And Machine Learning In Cybersecurity:

    <u>Data Mining and Machine Learning in Cybersecurity</u> 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   *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   *Machine Learning for Computer and Cyber Security* Brij B. Gupta,Quan Z. Sheng,2019-02-05 While Computer Security is a broader term which incorporates technologies protocols standards and policies to ensure the security of the computing systems including the computer hardware software and the information stored in it Cyber Security is a specific growing field to protect computer networks offline and online from unauthorized access botnets phishing scams etc Machine learning is a branch of Computer Science which enables computing machines to adopt new behaviors on the basis of observable and verifiable data and information It can be applied to ensure the security of the computers and the information by detecting anomalies using data mining and other such techniques This book will be an invaluable resource to understand the importance of machine learning and data mining in establishing computer and cyber security It emphasizes important security aspects associated with computer and cyber security along with the analysis of machine learning and data mining based solutions The book also highlights the future research domains in which these solutions can be applied Furthermore it caters to the needs of IT professionals researchers faculty members scientists graduate students research scholars and software developers who seek to carry out research and develop combating solutions in the area of cyber security using machine learning based approaches It is an extensive source of information for the readers belonging to the field of Computer Science and Engineering and Cyber Security professionals Key Features This book contains examples and illustrations to demonstrate the principles algorithms challenges and applications of machine learning and data mining for computer and cyber security It showcases important security aspects and current trends in the field It provides an insight of the future research directions in the field Contents of this book help to prepare the students for exercising better defense in terms of understanding the motivation of the attackers and how to deal with and mitigate the situation using machine learning based approaches in better manner   <u>Machine Learning and Data Mining for Computer Security</u> 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   Machine Learning and Data Mining for Emerging Trend in Cyber Dynamics Haruna Chiroma,Shafi'i M. Abdulhamid,Philippe Fournier-Viger,Nuno M. Garcia,2021-04-01 This book addresses theories and empirical procedures for the application of machine learning and data mining to solve problems in cyber dynamics It explains the fundamentals of cyber dynamics and presents how these resilient algorithms strategies techniques can be used for the development of the cyberspace environment such as cloud computing services cyber security data analytics and disruptive technologies like blockchain The book presents new machine learning and data mining approaches in solving problems in cyber dynamics Basic concepts related work reviews illustrations empirical results and tables are integrated in each chapter to enable the reader to fully understand the concepts methodology and the results presented The book contains empirical solutions of problems in cyber dynamics ready for industrial applications The book will be an excellent starting point for postgraduate students and researchers because each chapter is design to have future research directions

Machine Learning and Security Clarence Chio,David Freeman,2018-01-26 Can machine learning techniques solve our computer security problems and finally put an end to the cat and mouse game between attackers and defenders Or is this hope merely hype Now you can dive into the science and answer this question for yourself With this practical guide you ll explore ways to apply machine learning to security issues such as intrusion detection malware classification and network analysis Machine learning and security specialists Clarence Chio and David Freeman provide a framework for discussing the marriage of these two fields as well as a toolkit of machine learning algorithms that you can apply to an array of security problems This book is ideal for security engineers and data scientists alike Learn how machine learning has contributed to the success of modern spam filters Quickly detect anomalies including breaches fraud and impending system failure Conduct malware analysis by extracting useful information from computer binaries Uncover attackers within the network by finding patterns inside datasets Examine how attackers exploit consumer facing websites and app functionality Translate your machine learning algorithms from the lab to production Understand the threat attackers pose to machine learning solutions

Machine Learning in Cyber Trust Jeffrey J. P. Tsai,Philip S. Yu,2009-04-05 Many networked computer systems are far too vulnerable to cyber attacks that can inhibit their functioning corrupt important data or expose private information Not surprisingly the field of cyber based systems is a fertile ground where many tasks can be formulated as learning problems and approached in terms of machine learning algorithms This book contains original materials by leading researchers in the

area and covers applications of different machine learning methods in the reliability security performance and privacy issues of cyber space It enables readers to discover what types of learning methods are at their disposal summarizing the state of the practice in this significant area and giving a classification of existing work Those working in the field of cyber based systems including industrial managers researchers engineers and graduate and senior undergraduate students will find this an indispensable guide in creating systems resistant to and tolerant of cyber attacks **Applications of Machine Learning and Deep Learning for Privacy and Cybersecurity** Lobo, Victor,Correia, Anacleto,2022-06-24 The growth of innovative cyber threats many based on metamorphosing techniques has led to security breaches and the exposure of critical information in sites that were thought to be impenetrable The consequences of these hacking actions were inevitably privacy violation data corruption or information leaking Machine learning and data mining techniques have significant applications in the domains of privacy protection and cybersecurity including intrusion detection authentication and website defacement detection that can help to combat these breaches Applications of Machine Learning and Deep Learning for Privacy and Cybersecurity provides machine and deep learning methods for analysis and characterization of events regarding privacy and anomaly detection as well as for establishing predictive models for cyber attacks or privacy violations It provides case studies of the use of these techniques and discusses the expected future developments on privacy and cybersecurity applications Covering topics such as behavior based authentication machine learning attacks and privacy preservation this book is a crucial resource for IT specialists computer engineers industry professionals privacy specialists security professionals consultants researchers academicians and students and educators of higher education **Hands-On Machine Learning for Cybersecurity** Soma Halder,Sinan Ozdemir,2018-12-31 Get into the world of smart data security using machine learning algorithms and Python libraries Key FeaturesLearn machine learning algorithms and cybersecurity fundamentalsAutomate your daily workflow by applying use cases to many facets of securityImplement smart machine learning solutions to detect various cybersecurity problemsBook Description Cyber threats today are one of the costliest losses that an organization can face In this book we use the most efficient tool to solve the big problems that exist in the cybersecurity domain The book begins by giving you the basics of ML in cybersecurity using Python and its libraries You will explore various ML domains such as time series analysis and ensemble modeling to get your foundations right You will implement various examples such as building system to identify malicious URLs and building a program to detect fraudulent emails and spam Later you will learn how to make effective use of K means algorithm to develop a solution to detect and alert you to any malicious activity in the network Also learn how to implement biometrics and fingerprint to validate whether the user is a legitimate user or not Finally you will see how we change the game with TensorFlow and learn how deep learning is effective for creating models and training systems What you will learnUse machine learning algorithms with complex datasets to implement cybersecurity conceptsImplement machine learning algorithms such as clustering k means and Naive Bayes to solve real world

problemsLearn to speed up a system using Python libraries with NumPy Scikit learn and CUDAUnderstand how to combat malware detect spam and fight financial fraud to mitigate cyber crimesUse TensorFlow in the cybersecurity domain and implement real world examplesLearn how machine learning and Python can be used in complex cyber issuesWho this book is for This book is for the data scientists machine learning developers security researchers and anyone keen to apply machine learning to up skill computer security Having some working knowledge of Python and being familiar with the basics of machine learning and cybersecurity fundamentals will help to get the most out of the book   **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

   Artificial Intelligence and Data Mining Approaches in Security Frameworks Neeraj Bhargava,Ritu Bhargava,Pramod Singh Rathore,Rashmi Agrawal,2021-08-24 ARTIFICIAL INTELLIGENCE AND DATA MINING IN SECURITY FRAMEWORKS Written and edited by a team of experts in the field this outstanding new volume offers solutions to the problems of security outlining the concepts behind allowing computers to learn from experience and understand the world in terms of a hierarchy of concepts with each concept defined through its relation to simpler concepts Artificial

intelligence AI and data mining is the fastest growing field in computer science AI and data mining algorithms and techniques are found to be useful in different areas like pattern recognition automatic threat detection automatic problem solving visual recognition fraud detection detecting developmental delay in children and many other applications However applying AI and data mining techniques or algorithms successfully in these areas needs a concerted effort fostering integrative research between experts ranging from diverse disciplines from data science to artificial intelligence Successful application of security frameworks to enable meaningful cost effective personalized security service is a primary aim of engineers and researchers today However realizing this goal requires effective understanding application and amalgamation of AI and data mining and several other computing technologies to deploy such a system in an effective manner This book provides state of the art approaches of artificial intelligence and data mining in these areas It includes areas of detection prediction as well as future framework identification development building service systems and analytical aspects In all these topics applications of AI and data mining such as artificial neural networks fuzzy logic genetic algorithm and hybrid mechanisms are explained and explored This book is aimed at the modeling and performance prediction of efficient security framework systems bringing to light a new dimension in the theory and practice This groundbreaking new volume presents these topics and trends bridging the research gap on AI and data mining to enable wide scale implementation Whether for the veteran engineer or the student this is a must have for any library This groundbreaking new volume Clarifies the understanding of certain key mechanisms of technology helpful in the use of artificial intelligence and data mining in security frameworks Covers practical approaches to the problems engineers face in working in this field focusing on the applications used every day Contains numerous examples offering critical solutions to engineers and scientists Presents these new applications of AI and data mining that are of prime importance to human civilization as a whole **Privacy and Security Issues in Data Mining and Machine Learning** Christos Dimitrakakis,Aris Gkoulalas-Divanis,Aikaterini Mitrokotsa,Vassilios S. Verykios,Yücel Saygin,2011-04-16 This book constitutes the refereed proceedings of the International ECML PKDD Workshop on Privacy and Security Issues in Data Mining and Machine Learning PSDML 2010 held in Barcelona Spain in September 2010 The 11 revised full papers presented were carefully reviewed and selected from 21 submissions The papers range from data privacy to security applications focusing on detecting malicious behavior in computer systems **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   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   *Machine Learning for Cyber Security* Xiaofeng Chen,Hongyang Yan,Qiben Yan,Xiangliang Zhang,2020-11-10 This three volume book set constitutes the proceedings of the Third International Conference on Machine Learning for Cyber Security ML4CS 2020 held in Xi an China in October 2020 The 118 full papers and 40 short papers presented were carefully reviewed and selected from 360 submissions The papers offer a wide range of the following subjects Machine learning security privacy preserving cyber security Adversarial machine Learning Malware detection and analysis Data mining and Artificial Intelligence   **Nature-Inspired Computation in Data Mining and**

Machine Learning Xin-She Yang,Xing-Shi He,2019-09-03 This book reviews the latest developments in nature inspired computation with a focus on the cross disciplinary applications in data mining and machine learning Data mining machine learning and nature inspired computation are current hot research topics due to their importance in both theory and practical applications Adopting an application focused approach each chapter introduces a specific topic with detailed descriptions of relevant algorithms extensive literature reviews and implementation details Covering topics such as nature inspired algorithms swarm intelligence classification clustering feature selection cybersecurity learning algorithms over cloud extreme learning machines object categorization particle swarm optimization flower pollination and firefly algorithms and neural networks it also presents case studies and applications including classifications of crisis related tweets extraction of named entities in the Tamil language performance based prediction of diseases and healthcare services This book is both a valuable a reference resource and a practical guide for students researchers and professionals in computer science data and management sciences artificial intelligence and machine learning   Machine Learning for Cybersecurity Marwan Omar,2022-09-24 This SpringerBrief presents the underlying principles of machine learning and how to deploy various deep learning tools and techniques to tackle and solve certain challenges facing the cybersecurity industry By implementing innovative deep learning solutions cybersecurity researchers students and practitioners can analyze patterns and learn how to prevent cyber attacks and respond to changing malware behavior The knowledge and tools introduced in this brief can also assist cybersecurity teams to become more proactive in preventing threats and responding to active attacks in real time It can reduce the amount of time spent on routine tasks and enable organizations to use their resources more strategically In short the knowledge and techniques provided in this brief can help make cybersecurity simpler more proactive less expensive and far more effective Advanced level students in computer science studying machine learning with a cybersecurity focus will find this SpringerBrief useful as a study guide Researchers and cybersecurity professionals focusing on the application of machine learning tools and techniques to the cybersecurity domain will also want to purchase this SpringerBrief   **Data Mining and Machine Learning for Reverse Engineering** Honghui Ding,2019 Reverse engineering is fundamental for understanding the inner workings of new malware exploring new vulnerabilities in existing systems and identifying patent infringements in the distributed executables It is the process of getting an in depth understanding of a given binary executable without its corresponding source code Reverse engineering is a manually intensive and time consuming process that relies on a thorough understanding of the full development stack from hardware to applications It requires a much steeper learning curve than programming Given the unprecedentedly vast amount of data to be analyzed and the significance of reverse engineering the overall question that drives the studies in this thesis is how can data mining and machine learning technologies make cybersecurity practitioners more productive to uncover the provenance understand the intention and discover the issues behind the data in a scalable way In this thesis I focus on two data driven solutions to help reverse

engineers analyzing binary data assembly clone search and behavioral summarization Assembly code clone search is emerging as an Information Retrieval IR technique that helps address security problems It has been used for differing binaries to locate the changed parts identifying known library functions such as encryption searching for known programming bugs or zero day vulnerabilities in existing software or Internet of Things IoT devices firmware as well as detecting software plagiarism or GNU license infringements when the source code is unavailable However designing an effective search engine is difficult due to varieties of compiler optimization and obfuscation techniques that make logically similar assembly functions appear to be dramatically different By working closely with reverse engineers I identify three different scenarios of reverse engineering and develop novel data mining and machine learning models for assembly clone search to address the respective challenges By developing an intelligent assembly clone search platform I optimize the process of reverse engineering by addressing the information needs of reverse engineers Experimental results suggest that Kam1n0 is accurate efficient and scalable for handling a large volume of data The second part of the thesis goes beyond optimizing an information retrieval process for reverse engineering I propose to automatically and statically characterize the behaviors of a given binary executable Behavioral indicators denote those potentially high risk malicious behaviors exhibited by malware such as unintended network communications file encryption keystroke logging abnormal registry modifications sandbox evasion and camera manipulation I design a novel neural network architecture that models the different aspects of an executable It is able to predict over 139 suspicious and malicious behavioral indicators without running the executable The resulting system can be used as an additional binary analytic layer to mitigate the issues of polymorphism metamorphism and evasive techniques It also provides another behavioral abstraction of malware to security analysts and reverse engineers Therefore it can reduce the data to be manually analyzed and the reverse engineers can focus on the binaries that are of their interest In summary this thesis presents four original research projects that not only advance the knowledge in reverse engineering and data mining but also contribute to the overall safety of our cyber world by providing open source award winning binary analysis systems that empower cybersecurity practitioners **Data Science and Intelligent Applications** Ketan Kotecha,Vincenzo Piuri,Hetalkumar N. Shah,Rajan Patel,2020-06-17 This book includes selected papers from the International Conference on Data Science and Intelligent Applications ICDSIA 2020 hosted by Gandhinagar Institute of Technology GIT Gujarat India on January 24 25 2020 The proceedings present original and high quality contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications The conference provides a forum for researchers from academia and industry to present and share their ideas views and results while also helping them approach the challenges of technological advancements from different viewpoints The contributions cover a broad range of topics including collective intelligence intelligent systems IoT fuzzy systems Bayesian networks ant colony optimization data privacy and security data mining data warehousing big data analytics cloud computing natural

language processing swarm intelligence speech processing machine learning and deep learning and intelligent applications and systems Helping strengthen the links between academia and industry the book offers a valuable resource for instructors students industry practitioners engineers managers researchers and scientists alike **ICT and Data Sciences** Archana Singh,Vinod Kumar Shukla,Ashish Seth,Sai Sabitha,2022-05-15 This book highlights the state of the art research on data usage security and privacy in the scenarios of the Internet of Things IoT along with related applications using Machine Learning and Big Data technologies to design and make efficient Internet compatible IoT systems ICT and Data Sciences brings together IoT and Machine Learning and provides the careful integration of both along with many examples and case studies It illustrates the merging of two technologies while presenting basic to high level concepts covering different fields and domains such as the Hospitality and Tourism industry Smart Clothing Cyber Crime Programming Communications Business Intelligence all in the context of the Internet of Things The book is written for researchers and practitioners working in Information Communication Technology and Computer Science

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