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Milano, Italy

360° Unsupervised Anomaly-based Intrusion Detection

Stefano Zanero, Ph.D.

Post-doc Researcher, Politecnico di Milano
CTO & Founder, Secure Network S.r.l.

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Global Security, Safety, and Sustainability Hamid Jahankhani,Ali G. Hessami,Feng Hsu,2009-08-20 The Annual ICGS International Conference is an established platform in which se rity safety and sustainability issues can be examined from several global perspectives through dialogue between academics students government representatives chief executives security professionals and research scientists from the United Kingdom and from around the globe The 2009 two day conference focused on the challenges of complexity rapid pace of change and risk opportunity issues associated with modern products systems s cial events and infrastructures The importance of adopting systematic and systemic approaches to the assurance of these systems was emphasized within a special stream focused on strategic frameworks architectures and human factors The conference provided an opportunity for systems scientists assurance researchers owners ope tors and maintainers of large complex and advanced systems and infrastructures to update their knowledge with the state of best practice in these challenging domains while networking with the leading researchers and solution providers ICGS3 2009 received paper submissions from more than 20 different countries around the world Only 28 papers were selected and were presented as full papers The program also included three keynote lectures by leading researchers security professionals and government representatives June 2009 Hamid Jahankhani Ali Hessami Feng Hsu **Proceedings of International Conference on Communication and Computational Technologies** Sandeep Kumar,Saroj Hiranwal,Ritu Garg,S. D. Purohit,2024-12-04 This book gathers selected papers presented at 6th International Conference on Communication and Computational Technologies ICCCT 2024 jointly organized by Soft Computing Research Society SCRS and Rajasthan Institute of Engineering Technology RIET Jaipur during January 8 9 2024 The book is a collection of state of the art research work in the cutting edge technologies related to the communication and intelligent systems The topics covered are algorithms and applications of intelligent systems informatics and applications and communication and control systems

Forthcoming Networks and Sustainability in the AIoT Era Jawad Rasheed,Adnan M. Abu-Mahfouz,Muhammad Fahim,2024-06-25 This book introduces a groundbreaking approach to enhancing IoT device security providing a comprehensive overview of its applications and methodologies Covering a wide array of topics from crime prediction to cyberbullying detection from facial recognition to analyzing email spam it addresses diverse challenges in contemporary society Aimed at researchers practitioners and policymakers this book equips readers with practical tools to tackle real world issues using advanced machine learning algorithms Whether you re a data scientist law enforcement officer or urban planner this book is a valuable resource for implementing predictive models and enhancing public safety measures It is a comprehensive guide for implementing machine learning solutions across various domains ensuring optimal performance and reliability Whether you re delving into IoT security or exploring the potential of AI in urban landscapes this book provides invaluable insights and tools to navigate the evolving landscape of technology and data science The book provides a

comprehensive overview of the challenges and solutions in contemporary cybersecurity Through case studies and practical examples readers gain a deeper understanding of the security concerns surrounding IoT devices and learn how to mitigate risks effectively The book s interdisciplinary approach caters to a diverse audience including academics industry professionals and government officials who seek to address the growing cybersecurity threats in IoT environments Key uses of this book include implementing robust security measures for IoT devices conducting research on machine learning algorithms for attack detection and developing policies to enhance cybersecurity in IoT ecosystems By leveraging advanced machine learning techniques readers can effectively detect and mitigate cyber threats ensuring the integrity and reliability of IoT systems Overall this book is a valuable resource for anyone involved in designing implementing or regulating IoT devices and systems   Cybersecurity of Digital Service Chains Joanna Kołodziej,Matteo Repetto,Armend Duzha,2022-04-06 This open access book presents the main scientific results from the H2020 GUARD project The GUARD project aims at filling the current technological gap between software management paradigms and cybersecurity models the latter still lacking orchestration and agility to effectively address the dynamicity of the former This book provides a comprehensive review of the main concepts architectures algorithms and non technical aspects developed during three years of investigation the description of the Smart Mobility use case developed at the end of the project gives a practical example of how the GUARD platform and related technologies can be deployed in practical scenarios We expect the book to be interesting for the broad group of researchers engineers and professionals daily experiencing the inadequacy of outdated cybersecurity models for modern computing environments and cyber physical systems   **Critical Information Infrastructures Security** Gabriele Oliva,Stefano Panzieri,Bernhard Hämmerli,Federica Pascucci,Luca Faramondi,2025-03-03 This book constitutes the refereed proceedings of the 19th International Conference on Critical Information Infrastructures Security CRITIS 2024 held in Rome Italy during September 18 20 2024 The 24 full papers were included in this volume were carefully reviewed and selected from 32 submissions The presentations mainly revolved around cyber security cyber physical systems climate change and natural threats   *Information and Software Technologies* Audrius Lopata,Daina Gudonienė,Rita Butkienė,2022-10-06 This book constitutes the refereed proceedings of the 28th International Conference on Information and Software Technologies ICIST 2022 held in Kaunas Lithuania in October 2022 The 23 full papers and 3 short papers presented were carefully reviewed and selected from 66 submissions The papers discuss such topics as business intelligence for information and software systems intelligent methods for data analysis and computer aided software engineering information technology applications smart e learning technologies and applications language technologies   *Unsupervised Feature Selection for Anomaly-based Network Intrusion Detection Using Cluster Validity Indices* Tyrone Naidoo,2016   **Unsupervised Density- and Anomaly-based Intrusion Detector in Networks** Eric Lim,2016 To protect the integrity and security of networks experts and researchers are constantly improving ways to capture network based threats As the security systems advance

towards effcient and effective recognition of such threats exploiters and malicious users introduce novel attacks unknown to the society to circumvent the defensive systems Novel threats are difficult to detect and capture due to a lack of information initially but they must not be disregarded until suficient information is gathered to help identify them A capable security system should not only be able to detect previously known attacks but also possess abilities to detect unknown novel attacks We propose a method in which the novel attacks can be detected without prior knowledge or presumption of their intentions and purposes Our method is based on 1 unsupervised anomaly detection algorithms that do not require labels in data which makes it a useful exploratory tool for finding potential novel threats in the given data and 2 local density algorithms such as LOF and DBSCAN to robustly analyse data while not being affected by the arbitrary shapes of the data Our method implements a two phase structure to mitigate one of the main caveats of an unsupervised anomaly detection task that is relative underperformance in comparison to its supervised and semi supervised counterparts We evaluate each phase of our method as well as the whole using KDD 99 data to show that it works as designed and compare the results against other possible methods to report the strengths and weaknesses of our method In our experiments our proposed method was able to detect between 95% and 98% of intrusions on average from one dataset of KDD 99 and about 88% of intrusions from another which suggests that our method is accurate The standard deviations of our results were extremely small to suggest that our method is also precise Our method was able to outperform clustering based and PCA based approaches in terms of both accuracy and precision   **MULTI-LEVEL ANOMALY BASED AUTONOMIC INTRUSION DETECTION SYSTEM.** ,2008 The rapid growth and deployment of network technologies and Internet services has made security and management of networks a challenging research problem This growth is accompanied by an exponential growth in the number of network attacks which have become more complex more organized more dynamic and more severe than ever Current network protection techniques are static slow in responding to attacks and inefficient due to the large number of false alarms Attack detection systems can be broadly classified as being signature based classification based or anomaly based In this dissertation I present a multi level anomaly based autonomic network defense system which can efficiently detect both known and unknown types of network attacks with a high detection rate and low false alarms The system uses autonomic computing to automate the control and management of multi level intrusion detection system and integrate the different components of the system The system defends the network by detecting anomalies in network operations that may have been caused by network attacks Like other anomaly detection systems AND captures a profile of normal network behavior In this dissertation I introduce experimental results that evaluate the effectiveness and performance of the multi level anomaly based autonomic network intrusion detection system in detecting network attacks The system consist of monitoring modules feature aggregation and correlation modules behavior analysis modules decision fusion module global visualization module risk and impact analysis module action module attack classification module and the adaptive learning module I have

successfully implemented a prototype system based on my multi level anomaly based approach The experimental results and evaluation of our prototype show that our multi level intrusion detection system can efficiently and effectively detect and protect against any type of network attacks known or unknown in real time Furthermore the overhead of our approach is insignificant on the normal network operations and services **Understanding Intrusion Detection through Visualization** Stefan Axelsson,David Sands,2006-06-01 This monograph is the outgrowth of Stefan Axelson s PhD Dissertation at Chalmers University in G teborg Sweden The dissertation in turn collects a number of research efforts performed over a period of six years or so into a coherent whole It was my honor to serve as the opponent at Dr Axelsson s examination In the Swedish system it is the job of the opponent to place the candidate s work into a broader perspective demonstrating its significance and contributions to the field and then to introduce the work to the attendees at the examination This done the candidate presents the technical details of the work and the opponent critiques the work giving the candidate the opportunity to defend it This forward is adapted from the introduction that I gave at the examination and should serve to acquaint the reader not only with the work at hand but also with the field to which it applies The title of the work Under standing Intrusion Detection Through Visualization is particularly telling As is the case with any good piece of research we hope to gain an understanding of a problem not just a recipe or simple solution of immediate but limited utility For much of its formative period computer security concentrated on devel oping systems that in effect embodied a fortress model of protection **Anomaly Detection as a Service** Danfeng (Daphne) Yao,Xiaokui Shu,Long Cheng,Salvatore J. Stolfo,2017-10-24 Anomaly detection has been a long standing security approach with versatile applications ranging from securing server programs in critical environments to detecting insider threats in enterprises to anti abuse detection for online social networks Despite the seemingly diverse application domains anomaly detection solutions share similar technical challenges such as how to accurately recognize various normal patterns how to reduce false alarms how to adapt to concept drifts and how to minimize performance impact They also share similar detection approaches and evaluation methods such as feature extraction dimension reduction and experimental evaluation The main purpose of this book is to help advance the real world adoption and deployment anomaly detection technologies by systematizing the body of existing knowledge on anomaly detection This book is focused on data driven anomaly detection for software systems and networks against advanced exploits and attacks but also touches on a number of applications including fraud detection and insider threats We explain the key technical components in anomaly detection workflows give in depth description of the state of the art data driven anomaly based security solutions and more importantly point out promising new research directions This book emphasizes on the need and challenges for deploying service oriented anomaly detection in practice where clients can outsource the detection to dedicated security providers and enjoy the protection without tending to the intricate details **Anomaly-Based Intrusion Detection System** Gerardus Blokdyk,2018-05-16 Will team members perform Anomaly

based intrusion detection system work when assigned and in a timely fashion Does the Anomaly based intrusion detection system performance meet the customer s requirements Is Anomaly based intrusion detection system dependent on the successful delivery of a current project How can you negotiate Anomaly based intrusion detection system successfully with a stubborn boss an irate client or a deceitful coworker Which customers cant participate in our Anomaly based intrusion detection system domain because they lack skills wealth or convenient access to existing solutions Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Anomaly based intrusion detection system investments work better This Anomaly based intrusion detection system All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Anomaly based intrusion detection system Self Assessment Featuring new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Anomaly based intrusion detection system improvements can be made In using the questions you will be better able to diagnose Anomaly based intrusion detection system projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in Anomaly based intrusion detection system and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the Anomaly based intrusion detection system Scorecard you will develop a clear picture of which Anomaly based intrusion detection system areas need attention Your purchase includes access details to the Anomaly based intrusion detection system self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next Your exclusive instant access details can be found in your book   **Revisiting Anomaly-based Network Intrusion Detection Systems** Damiano Bolzoni,2009   Design and Implementation an Anomaly-based Intrusion Detection System Using Statistical Analysis of Network Traffic Jitendra Bhawnani,2003   NETWORK-BASED INTRUSION DETECTION SYSTEM WITH ANOMALY DETECTION WONG WEI HAN (TP025331),2013   **Deep Learning for Intrusion Detection** Faheem Syeed Masoodi,Alwi Bamhdi,2025-11-14 Comprehensive resource exploring deep learning techniques for intrusion detection in various applications such as cyber physical systems and IoT networks Deep Learning for Intrusion Detection provides a practical guide to understand the challenges of intrusion detection in various application areas and how deep learning can be

applied to address those challenges It begins by discussing the basic concepts of intrusion detection systems IDS and various deep learning techniques such as convolutional neural networks CNNs recurrent neural networks RNNs and deep belief networks DBNs Later chapters cover timely topics including network communication between vehicles and unmanned aerial vehicles The book closes by discussing security and intrusion issues associated with lightweight IoTs MQTT networks and Zero Day attacks The book presents real world examples and case studies to highlight practical applications along with contributions from leading experts who bring rich experience in both theory and practice Deep Learning for Intrusion Detection includes information on Types of datasets commonly used in intrusion detection research including network traffic datasets system call datasets and simulated datasets The importance of feature extraction and selection in improving the accuracy and efficiency of intrusion detection systems Security challenges associated with cloud computing including unauthorized access data loss and other malicious activities Mobile Adhoc Networks MANETs and their significant security concerns due to high mobility and the absence of a centralized authority Deep Learning for Intrusion Detection is an excellent reference on the subject for computer science researchers practitioners and students as well as engineers and professionals working in cybersecurity   **Anomaly-based Network Intrusion Detection Using Outlier Subspace Analysis Approach** David Kershaw,2010   **Anomaly-based Intrusion Detection Using Using Lightweight Stateless Payload Inspection** Nnamdi Chike Nwanze,2009   **Anomaly Based Intrusion Detection System A Complete Guide - 2020 Edition** Gerardus Blokdyk,2020-02-20 How do you stay flexible and focused to recognize larger Anomaly based intrusion detection system results What do you need to start doing Who should make the Anomaly based intrusion detection system decisions What are your current levels and trends in key Anomaly based intrusion detection system measures or indicators of product and process performance that are important to and directly serve your customers Which costs should be taken into account Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Anomaly Based Intrusion Detection System investments work better This Anomaly Based Intrusion Detection System All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Anomaly Based Intrusion Detection System Self Assessment Featuring 958 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Anomaly Based Intrusion Detection System improvements can be made

In using the questions you will be better able to diagnose Anomaly Based Intrusion Detection System projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in Anomaly Based Intrusion Detection System and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the Anomaly Based Intrusion Detection System Scorecard you will develop a clear picture of which Anomaly Based Intrusion Detection System areas need attention Your purchase includes access details to the Anomaly Based Intrusion Detection System self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard Example pre filled Self Assessment Excel Dashboard to get familiar with results generation In depth and specific Anomaly Based Intrusion Detection System Checklists Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips **Comparing Anomaly-based Network Intrusion Detection Approaches Under Practical Aspects** Daniel Helmrich,2021

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