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MATA CHRISTENSEN

The Aerospace Supply Chain and Cyber Security John Wiley & Sons
A practical guide to understanding and analyzing cyber attacks by advanced attackers, such as nation states. Cyber attacks are no longer the domain of petty criminals. Today, companies find themselves targeted by sophisticated nation state attackers armed with the resources to craft scarily effective campaigns. This book is a detailed guide to understanding the major players in these cyber wars, the techniques they use, and the process of analyzing their advanced attacks. Whether you're an individual researcher or part of a team within a Security Operations Center (SoC), you'll learn to approach, track, and attribute attacks to these advanced actors. The first part of the book is an overview of actual cyber attacks conducted by nation-state actors and other advanced organizations. It explores the geopolitical context in which the attacks took place, the patterns found in the attackers' techniques, and the supporting evidence analysts used to attribute such attacks. Dive into the mechanisms of: North Korea's series of cyber attacks against financial institutions, which resulted in billions of dollars stolen The world of targeted ransomware attacks, which have leveraged nation state tactics to cripple entire corporate enterprises with ransomware Recent cyber attacks aimed at disrupting or influencing national elections globally The book's second part walks through how defenders can track and attribute future attacks. You'll be provided with the tools, methods, and analytical guidance required to dissect and research each stage of an attack campaign. Here, Jon DiMaggio demonstrates some of the real techniques he has employed to uncover crucial information about the 2021 Colonial Pipeline attacks, among many other advanced threats. He now offers his experience to train the next generation of expert analysts.
Cyber Arms Springer
This book constitutes the refereed proceedings of the 17th International Conference on Information Security, ISSA 2018, held in Pretoria, South Africa, in

August 2018. The 13 revised full papers presented were carefully reviewed and selected from 40 submissions. The papers are dealing with topics such as authentication; access control; digital (cyber) forensics; cyber security; mobile and wireless security; privacy-preserving protocols; authorization; trust frameworks; security requirements; formal security models; malware and its mitigation; intrusion detection systems; social engineering; operating systems security; browser security; denial-of-service attacks; vulnerability management; file system security; firewalls; Web protocol security; digital rights management; distributed systems security.

Secure IT Systems MDPI

This book constitutes the proceedings of the 15th International Conference on Service-Oriented Computing, ICSOC 2017, held in malaga, Spain, in November 2017. The 33 full papers presented together with 20 short papers and 4 keynotes in this volume were carefully reviewed and selected from 179 submissions. The selected papers cover a wide variety of important topics in the area of service-oriented computing, including foundational issues on service discovery and service-systems design, business process modelling and management, economics of service-systems engineering, as well as services on the cloud, social networks, the Internet of Things (IoT), and data analytics. The chapter "Risk-based Proactive Process Adaptation" is available open access under a CC BY 4.0 license via link.springer.com.

Cybercrimes et enjeux technologiques - Contexte et perspectives Springer

DATA EXFILTRATION THREATS AND PREVENTION TECHNIQUES Comprehensive resource covering threat prevention techniques for data exfiltration and applying machine learning applications to aid in identification and prevention Data Exfiltration Threats and Prevention Techniques provides readers the knowledge needed to prevent and protect from malware attacks by introducing existing and recently developed methods in malware protection using AI, memory forensic, and pattern matching, presenting various data exfiltration attack vectors and advanced memory-based data leakage detection, and discussing ways in which machine learning methods have a positive impact on malware detection. Providing detailed descriptions of the recent advances in data exfiltration detection methods and technologies, the authors also discuss details of data breach countermeasures and attack scenarios to show how the reader may identify a potential cyber attack in the real world. Composed of eight chapters, this book presents a better understanding of the core issues related to the cyber-attacks as well as the recent methods that have been developed in the field. In Data Exfiltration Threats and Prevention Techniques, readers can expect to find detailed information on: Sensitive data classification, covering text pre-processing, supervised text classification, automated text clustering, and other sensitive text detection approaches Supervised machine learning technologies for intrusion detection systems, covering taxonomy and benchmarking of supervised machine learning techniques Behavior-based malware detection using API-call sequences, covering API-call extraction techniques and detecting data stealing

behavior based on API-call sequences Memory-based sensitive data monitoring for real-time data exfiltration detection and advanced time delay data exfiltration attack and detection Aimed at professionals and students alike, Data Exfiltration Threats and Prevention Techniques highlights a range of machine learning methods that can be used to detect potential data theft and identifies research gaps and the potential to make change in the future as technology continues to grow.

Information and Communication Technology for Sustainable Development Springer Nature

This book constitutes the refereed proceedings on the 23rd Nordic Conference on Secure IT Systems, NordSec 2018, held in Oslo, Norway, in November 2018. The 29 full papers presented in this volume were carefully reviewed and selected from 81 submissions. They are organized in topical sections named: privacy; cryptography; network and cloud security; cyber security and malware; and security for software and software development.

The Art of Cyberwarfare Springer

This book constitutes the refereed post-conference proceedings of the 11th International Conference on Broadband Communications, Networks, and Systems, Broadnets 2020, which took place in Qingdao, China, in December 2020. The 13 full papers presented were carefully reviewed and selected from 32 submissions. The papers are thematically grouped as a session on wireless network and security and a session on communication quality.

Service-Oriented Computing CRC Press

This book constitutes the refereed proceedings oft he 19th International Symposium on Research in Attacks, Intrusions, and Defenses, RAID 2016, held in Evry, France, in September 2016. The 21 full papers presented were carefully reviewed and selected from 85 submissions. They are organized around the following topics: systems security; low-level attacks and defenses; measurement studies; malware analysis; network security; systematization of knowledge and experience reports; Web and mobile security.

Buying your Self on the Internet Apogeo Editore

This open access book presents the outcomes of the “Design for Future – Managed Software Evolution” priority program 1593, which was launched by the German Research Foundation (“Deutsche Forschungsgemeinschaft (DFG)”) to develop new approaches to software engineering with a specific focus on long-lived software systems. The different lifecycles of software and hardware platforms lead to interoperability problems in such systems. Instead of separating the development, adaptation and evolution of software and its platforms, as well as aspects like operation, monitoring and maintenance, they should all be integrated into one overarching process. Accordingly, the book is split into three major parts, the first of which includes an introduction to the nature of software evolution, followed by an overview of the specific challenges and a general introduction to the case studies used in the project. The second part of the book consists of the main chapters on knowledge carrying software, and cover tacit knowledge in software evolution, continuous design decision support, model-based round-trip engineering for software product lines, performance analysis strategies, maintaining security in software evolution, learning from

evolution for evolution, and formal verification of evolutionary changes. In turn, the last part of the book presents key findings and spin-offs. The individual chapters there describe various case studies, along with their benefits, deliverables and the respective lessons learned. An overview of future research topics rounds out the coverage. The book was mainly written for scientific researchers and advanced professionals with an academic background. They will benefit from its comprehensive treatment of various topics related to problems that are now gaining in importance, given the higher costs for maintenance and evolution in comparison to the initial development, and the fact that today, most software is not developed from scratch, but as part of a continuum of former and future releases.

Security in Computer and Information Sciences Presses internationales Polytechnique

Malgré l'impact qu'a eu l'informatisation de la société sur le crime, les connaissances sur le cybercrime n'abondent pas. Ce livre se veut une contribution à la synthèse des connaissances sur différents cybercrimes, notamment par l'examen des enjeux qu'ils soulèvent. Il étudie de façon approfondie quatorze phénomènes liés aux cybercrimes, allant des pratiques policières sur les médias sociaux à l'exploitation sexuelle des enfants sur Internet, en passant par la cyberintimidation, le piratage, les fraudes et l'utilisation des nouvelles technologies à des fins de propagande. Selon le sujet, les chapitres adoptent l'une de deux structures : les chapitres de type synthèse proposent une analyse des dernières connaissances criminologiques, sociologiques, juridiques et technologiques relatives à un cybercrime donné tandis que les chapitres de type nouvelle recherche présentent les résultats d'une recherche récente. Dans tous les cas, les expériences professionnelles et universitaires des auteurs, à l'instar de la diversité de leur provenance géographique au sein de la Francophonie (Canada, Suisse, France), viennent enrichir le contenu. Cet ouvrage, qui s'adresse aussi bien à l'étudiant, au chercheur ou à l'intervenant du milieu de la justice qu'au citoyen, peut se lire d'une couverture à l'autre ou un chapitre - voire une section - à la fois.

Cybersecurity Awareness Among Students and Faculty Bloomsbury Publishing

This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L)

Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

Real-Time Sensor Networks and Systems for the Industrial IoT Springer

The Industrial Internet of Things (Industrial IoT—IIoT) has emerged as the core construct behind the various cyber-physical systems constituting a principal dimension of the fourth Industrial Revolution. While initially born as the concept behind specific industrial applications of generic IoT technologies, for the optimization of operational efficiency in automation and control, it quickly enabled the achievement of the total convergence of Operational (OT) and Information Technologies (IT). The IIoT has now surpassed the traditional borders of automation and control functions in the process and manufacturing industry, shifting towards a wider domain of functions and industries, embraced under the dominant global initiatives and architectural frameworks of Industry 4.0 (or Industrie 4.0) in Germany, Industrial Internet in the US, Society 5.0 in Japan, and Made-in-China 2025 in China. As real-time embedded systems are quickly achieving ubiquity in everyday life and in industrial environments, and many processes already depend on real-time cyber-physical systems and embedded sensors, the integration of IoT with cognitive computing and real-time data exchange is essential for real-time analytics and realization of digital twins in smart environments and services under the various frameworks' provisions. In this context, real-time sensor networks and systems for the Industrial IoT encompass multiple technologies and raise significant design, optimization, integration and exploitation challenges. The ten articles in this Special Issue describe advances in real-time sensor networks and systems that are significant enablers of the Industrial IoT paradigm. In the relevant landscape, the domain of wireless networking technologies is centrally positioned, as expected.

Cybersecurity – Attack and Defense Strategies Springer

The seven-volume set of LNCS 11301-11307 constitutes the proceedings of the 25th International Conference on Neural Information Processing, ICONIP 2018, held in Siem Reap, Cambodia, in December 2018. The 401 full papers presented were carefully reviewed and selected from 575 submissions. The papers address the emerging topics of theoretical research, empirical studies, and applications of neural information processing techniques across different domains. The 6th volume, LNCS 11306, is organized in topical sections on time-series analysis; social systems; and image and signal processing.

Data Exfiltration Threats and Prevention Techniques Springer Nature

This book offers the first benchmarking study of China's response to the problems of security in cyber space. There are several useful descriptive books on cyber security policy in China published between 2010 and 2016. As a result, we know quite well the system for managing cyber security in China, and the history of policy responses. What we don't know so well, and where this book is useful, is how capable China has become in this domain relative to the rest of the world. This book is a health check, a report card, on China's cyber

security system in the face of escalating threats from criminal gangs and hostile states. The book also offers an assessment of the effectiveness of China's efforts. It lays out the major gaps and shortcomings in China's cyber security policy. It is the first book to base itself around an assessment of China's cyber industrial complex, concluding that China does not yet have one. As Xi Jinping said in July 2016, the country's core technologies are dominated by foreigners.

ICMLG 2017 5th International Conference on Management Leadership and Governance Springer
The third edition of International Communication examines the profound changes that have taken place, and are continuing to take place at an astonishing speed, in international media and communication. Building on the success of previous editions, this book maps out the expansion of media and telecommunications corporations within the macro-economic context of liberalisation, deregulation and privitisation. It then goes on to explore the impact of such growth on audiences in different cultural contexts and from regional, national and international perspectives. Each chapter contains engaging case studies which exemplify the main concepts and arguments.

Machine Intelligence and Big Data Analytics for Cybersecurity Applications Academic Conferences and publishing limited
Recipient of the SJSU San Jose State University Annual Author & Artist Awards 2019 In modern times, all individuals need to be knowledgeable about cybersecurity. They must have practical skills and abilities to protect themselves in cyberspace. What is the level of awareness among college students and faculty, who represent the most technologically active portion of the population in any society? According to the Federal Trade Commission's 2016 Consumer Sentinel Network report, 19 percent of identity theft complaints came from people under the age of 29. About 74,400 young adults fell victim to identity theft in 2016. This book reports the results of several studies that investigate student and faculty awareness and attitudes toward cybersecurity and the resulting risks. It proposes a plan of action that can help 26,000 higher education institutions worldwide with over 207 million college students, create security policies and educational programs that improve security awareness and protection. Features Offers an understanding of the state of privacy awareness Includes the state of identity theft awareness Covers mobile phone protection Discusses ransomware protection Discloses a plan of action to improve security awareness

ICCWS 2017 12th International Conference on Cyber Warfare and Security Syngress
This book examines the rise of the direct-to-consumer genetic testing industry (DTC) and its use of 'wrap' contracts. It uses the example of DTC to show the challenges that disruptive technologies pose for societies and for regulation. It also uses the wrap contracts of DTC companies to explore broader issues with online contracting.

Research in Attacks, Intrusions, and Defenses SAE International
This book vividly illustrates all the promising and potential machine learning (ML) and deep learning (DL) algorithms through a host of real-world and real-time business use cases. Machines and devices can be empowered to self-learn and exhibit

intelligent behavior. Also, Big Data combined with real-time and runtime data can lead to personalized, prognostic, predictive, and prescriptive insights. This book examines the following topics: Cognitive machines and devices Cyber physical systems (CPS) The Internet of Things (IoT) and industrial use cases Industry 4.0 for smarter manufacturing Predictive and prescriptive insights for smarter systems Machine vision and intelligence Natural interfaces K-means clustering algorithm Support vector machine (SVM) algorithm A priori algorithms Linear and logistic regression Applied Learning Algorithms for Intelligent IoT clearly articulates ML and DL algorithms that can be used to unearth predictive and prescriptive insights out of Big Data. Transforming raw data into information and relevant knowledge is gaining prominence with the availability of data processing and mining, analytics algorithms, platforms, frameworks, and other accelerators discussed in the book. Now, with the emergence of machine learning algorithms, the field of data analytics is bound to reach new heights. This book will serve as a comprehensive guide for AI researchers, faculty members, and IT professionals. Every chapter will discuss one ML algorithm, its origin, challenges, and benefits, as well as a sample industry use case for explaining the algorithm in detail. The book’s detailed and deeper dive into ML and DL algorithms using a practical use case can foster innovative research.

Cyber Security IGI Global

Updated and revised edition of the bestselling guide to developing defense strategies against the latest threats to cybersecurity Key FeaturesCovers the latest security threats and defense strategies for 2020Introduces techniques and skillsets required to conduct threat hunting and deal with a system breachProvides new information on Cloud Security Posture Management, Microsoft Azure Threat Protection, Zero Trust Network strategies, Nation State attacks, the use of Azure Sentinel as a cloud-based SIEM for logging and investigation, and much moreBook Description Cybersecurity – Attack and Defense Strategies, Second Edition is a completely revised new edition of the bestselling book, covering the very latest security threats and defense mechanisms including a detailed overview of Cloud Security Posture Management (CSPM) and an assessment of the current threat landscape, with additional focus on new IoT threats and cryptomining. Cybersecurity starts with the basics that organizations need to know to maintain a secure posture against outside threat and design a robust cybersecurity program. It takes you into the mindset of a Threat Actor to help you better understand the motivation and the steps of performing an actual attack – the Cybersecurity kill chain. You will gain hands-on experience in implementing cybersecurity using new techniques in reconnaissance and chasing a user's identity that will enable you to discover how a system is compromised, and identify and then exploit the vulnerabilities in your own system. This book also focuses on defense strategies to enhance the security of a system. You will also discover in-depth tools, including Azure Sentinel, to ensure there are security controls in each network layer, and how to carry out the recovery process of a compromised system. What you will learnThe importance of having a solid foundation for your security postureUse cyber security kill chain to understand

the attack strategyBoost your organization's cyber resilience by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligenceUtilize the latest defense tools, including Azure Sentinel and Zero Trust Network strategyIdentify different types of cyberattacks, such as SQL injection, malware and social engineering threats such as phishing emailsPerform an incident investigation using Azure Security Center and Azure SentinelGet an in-depth understanding of the disaster recovery processUnderstand how to consistently monitor security and implement a vulnerability management strategy for on-premises and hybrid cloudLearn how to perform log analysis using the cloud to identify suspicious activities, including logs from Amazon Web Services and AzureWho this book is for For the IT professional venturing into the IT security domain, IT pentesters, security consultants, or those looking to perform ethical hacking. Prior knowledge of penetration testing is beneficial.
Proceedings of the International Conference on Computing and Communication Systems Springer
Technology provides numerous opportunities for positive developments in modern society; however, these venues inevitably increase vulnerability to threats in online environments. Addressing issues of security in the cyber realm is increasingly relevant and critical to society. Threat Mitigation and Detection of Cyber Warfare and Terrorism Activities is a comprehensive reference source for the latest scholarly perspectives on countermeasures and related methods to enhance security and protection against criminal activities online. Highlighting a range of topics relevant to secure computing, such as parameter tampering, surveillance and control, and digital protests, this book is ideally designed for academics, researchers, graduate students, professionals, and practitioners actively involved in the expanding field of cyber security.
Artificial Intelligence and Digital Diplomacy Academic Conferences and publishing limited
This book will raise awareness on emerging challenges of AIempowered cyber arms used in weapon systems and stockpiled in the global cyber arms race. Based on real life events, it provides a comprehensive analysis of cyber offensive and defensive landscape, analyses the cyber arms evolution from prank malicious codes into lethal weapons of mass destruction, reveals the scale of cyber offensive conflicts, explores cyber warfare mutation, warns about cyber arms race escalation and use of Artificial Intelligence (AI) for military purposes. It provides an expert insight into the current and future malicious and destructive use of the evolved cyber arms, AI and robotics, with emphasis on cyber threats to CBRNe and critical infrastructure. The book highlights international efforts in regulating the cyber environment, reviews the best practices of the leading cyber powers and their controversial approaches, recommends responsible state behaviour. It also proposes information security and cyber defence solutions and provides definitions for selected conflicting cyber terms. The disruptive potential of cyber tools merging with military weapons is examined from the technical point of view, as well as legal, ethical, and political perspectives.