Safety Security Concerns In Hospitality Industry

Asia-Pacific Security Challenges *Understanding New Security Threats* **Cyber-Security Threats, Actors, and Dynamic Mitigation** *Understanding Emerging Security Challenges* **Computer Security Threats** *India's Security Concerns in the Indian Ocean Region* **Automotive Cyber Security** Understanding Security Issues **Privacy and Security Issues in Data Mining and Machine Learning Security Software Development Securing the Internet of Things** Detecting and Mitigating Robotic Cyber Security Risks Safety and Security Issues in Technical Infrastructures *Handbook of Research on Network Forensics and Analysis Techniques* Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications IoT Security Issues **Game Theoretic Risk Analysis of Security Threats** *Security Threats and Public Perception* **Blockchain for Business Exploring the Security Landscape: Non-Traditional Security Challenges Managing Information Security Risks International Security Issues in a Global Age** *Security 2020* **Container Security National Security Issues in Science, Law, and Technology** China as a Security Concern in Asia Understanding and Using C Pointers *SOHO Networking Cyber Security: Issues and Current Trends* **Exploding Data Implications of Artificial Intelligence for Cybersecurity** *Coping with Global Environmental Change, Disasters and Security* Internet of Things Cyberspace and National Security Privacy and Security Challenges in Location Aware Computing *Fitting Security Into the Swiss Value Landscape* **Security 2020** Managing New Security Threats in the Caribbean *Privacy and Security Challenges in Cloud Computing* **Deep Learning Approaches for Security Threats in IoT Environments**

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Computer Security Threats Aug 22 2022 This book on computer security threats explores the computer security threats and includes a broad set of solutions to defend the computer systems from these threats. The book is triggered by the understanding that digitalization and growing dependence on the Internet poses an increased risk of computer security threats in the modern world. The chapters discuss different research frontiers in computer security with algorithms and implementation details for use in the real world. Researchers and practitioners in areas such as statistics, pattern recognition, machine learning, artificial intelligence, deep learning, data mining, data analytics and visualization are contributing to the field of computer security. The intended audience of this book will mainly consist of researchers, research students, practitioners, data analysts, and business professionals who seek information on computer security threats and its defensive measures.

Safety and Security Issues in Technical Infrastructures Dec 14 2021 In the modern age of urbanization, the mass population is becoming progressively reliant on technical infrastructures. These industrial buildings provide integral services to the general public including the delivery of energy, information and communication technologies, and maintenance of transport networks. The safety and security of these structures is crucial as new threats are continually emerging. Safety and Security Issues in Technical Infrastructures is a pivotal reference source that provides vital research on the modernization of occupational security and safety practices within information technology-driven buildings. While highlighting topics such as explosion process safety, nanotechnology, and infrastructural risk analysis, this publication explores current risks and uncertainties and the raising of comprehensive awareness for experts in this field. This book is ideally designed for security managers, safety personnel, civil engineers, architects, researchers, construction professionals, strategists, educators, material scientists, property owners, and students.

Understanding Emerging Security Challenges Sep 23 2022 This book offers an overview of emerging security challenges in the global environment in the post-Cold War era. After the fall of the Berlin Wall and the subsequent shifting of international political environment, a new broader concept of security began to gain acceptance. This concept encompassed socio-economic-environmental challenges, such as resource scarcity and climate change, water-sharing issues, deforestation and forest protection measures, food and health security, and large population migration. The book examines the causes and consequences of these emerging security threats, and retains a critical focus on evolving approaches to address these issues. The author attempts to develop a framework for sustainable security in a rapidly changing global political landscape, which seeks to bring states and societies together in a way that addresses weaknesses of the evolving international system. Moreover, through a detailed analysis of the emerging security issues and their pathways, the book further argues that the evolving processes not only pose critical challenges but also provide remarkable opportunity for cooperation and collaboration among and within various stakeholders. This book will be of much interest to students of global security, war and conflict studies, peace studies and IR in general.

Internet of Things Mar 25 2020 IoT is empowered by various technologies used to detect, gather, store, act, process, transmit, oversee, and examine information. The combination of emergent technologies for information processing and distributed security, such as Cloud computing, Artificial intelligence, and Blockchain, brings new challenges in addressing distributed security methods that form the foundation of improved and eventually entirely new products and services. As systems interact with each other, it is essential to have an agreed interoperability standard, which is safe and valid. This book aims at providing an introduction by illustrating state-of-the-art security challenges and threats in IoT and the latest developments in IoT with Cloud, AI, and Blockchain security challenges. Various application case studies from domains such as science, engineering, and healthcare are introduced, along with their architecture and how they leverage various technologies Cloud, AI, and Blockchain. This book provides a comprehensive guide to researchers and students to design IoT integrated AI, Cloud, and Blockchain projects and to have an overview of the next generation challenges that may arise in the coming years.

International Security Issues in a Global Age Mar 05 2021 This volume examines the new, the changing, and the enduring features of international security in the post-Cold War era. In so doing, it examines the extent to which present state structures and institutions have been able to adapt and accommodate themselves to the diversity of security threats.

Automotive Cyber Security Jun 20 2022 This book outlines the development of safety and cybersecurity, threats and activities in automotive vehicles. This book discusses the automotive vehicle applications and technological aspects considering its cybersecurity issues. Each chapter offers a suitable context for understanding the complexities of the connectivity and cybersecurity of intelligent and autonomous vehicles. A top-down strategy was adopted to introduce the vehicles' intelligent features and functionality. The area of vehicle-to-everything (V2X) communications aims to exploit the power of ubiquitous connectivity for the traffic safety and transport efficiency. The chapters discuss in detail about the different

levels of autonomous vehicles, different types of cybersecurity issues, future trends and challenges in autonomous vehicles. Security must be thought as an important aspect during designing and implementation of the autonomous vehicles to prevent from numerous security threats and attacks. The book thus provides important information on the cybersecurity challenges faced by the autonomous vehicles and it seeks to address the mobility requirements of users, comfort, safety and security. This book aims to provide an outline of most aspects of cybersecurity in intelligent and autonomous vehicles. It is very helpful for automotive engineers, graduate students and technological administrators who want to know more about security technology as well as to readers with a security background and experience who want to know more about cybersecurity concerns in modern and future automotive applications and cybersecurity. In particular, this book helps people who need to make better decisions about automotive security and safety approaches. Moreover, it is beneficial to people who are involved in research and development in this exciting area. As seen from the table of contents, automotive security covers a wide variety of topics. In addition to being distributed through various technological fields, automotive cybersecurity is a recent and rapidly moving field, such that the selection of topics in this book is regarded as tentative solutions rather than a final word on what exactly constitutes automotive security. All of the authors have worked for many years in the area of embedded security and for a few years in the field of different aspects of automotive safety and security, both from a research and industry point of view.

Blockchain for Business Jun 08 2021 The book focuses on the power of business blockchain. It gives an overview of blockchain in traditional business, marketing, accounting and business intelligence. The book provides a detailed working knowedge of blockchain, user cases of blockchain in business, cryptocurrency and Initial Coin Offering(ICO) along with the risks associated with them. The book also covers the detailed study of decentralization, mining, consensus, smart contracts, concepts and working of distributed ledgers and hyper ledgers as well as many other important concepts. It also details the security and privacy aspects of blockchain. The book is beneficial for readers who are preparing for their business careers, those who are working with small scale businesses and startups, and helpful for business executives, managers, entrepreneurs, bankers, government officials and legal professionals who are looking to blockchain for secure financial transactions. The book will also be beneficial for researchers and students who want to study the latest developments of blockchain.

Privacy and Security Issues in Data Mining and Machine Learning Apr 18 2022 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.

Security Threats and Public Perception Jul 09 2021 Countless attempts at analyzing Russia’s actions focus on Putin to understand Russia’s military imbroglio in Ukraine, hostility towards America, and disdain of ‘Gayropa’. This book invites its readers to look beyond the man and delve into the online lives of millions of Russians. It asks not the question of what the threats are to Russia’s security, but what they are perceived to be by digital Russia. The author examines how enemy images are manufactured, threats magnified, stereotypes revived, memories implanted and fears harnessed. It looks at the legacy of the Soviet Union in shaping discussions ranging from the Ukraine crisis to the Pussy Riots trial, and explores the complex inter-relation between enemy images at the governmental level and their articulation by the general public. By drawing on the fields of international relations, memory studies, visual studies, and big data, this book addresses the question of why securitization succeeds – and why it fails. "Security theory meets the visual turn and goes to Russia, where old tsarist and Soviet tropes are flooding the internet in support of Putin's neo-tsarism. A magical mystery tour that comes recommended. Iver B. Neumann, author of "Russia and the Idea of Europe" “The novelty of her approach is in going beyond the traditional top down perspective and capturing the receptivity and contribution of various social groups to securitized discourses.” Andrei P.Tsygankov, author of "Russia's Foreign Policy: Change and Continuity in National Identity". “When do scary proclamations of security threats attract an audience? When does securitization work? ‘Security Threats and Public Perception’ combines in-depth analysis of the Ukraine Crisis in the Russian digital media with discourse theory to make an innovative argument about how and when people believe that they are insecure. A must read!” Laura Sjoberg, Assistant Professor of Political Science, University of Florida, USA

Privacy and Security Challenges in Cloud Computing Sep 18 2019 This reference text discusses various security techniques and challenges for cloud data protection from both software and hardware aspects. The text provides readers with an overview of cloud computing, beginning with historical perspectives on mainframe computers and early networking protocols, moving to current issues such as security of hardware and networks, performance, evolving IoT areas, edge computing, etc. It also deals with threat detection and incident response in cloud security. It covers important topics including operational security agitations in cloud computing, cyber artificial intelligence (AI) platform for cloud security, and security concerns of virtualization in cloud computing. The book will serve as a useful resource for graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and information technology.

Cyber Security: Issues and Current Trends Jul 29 2020 This book presents various areas related to cybersecurity. Different techniques and tools used by cyberattackers to exploit a system are thoroughly discussed and analyzed in their respective chapters. The content of the book provides an intuition of various issues and challenges of cybersecurity that can help readers to understand and have awareness about it. It starts with a very basic introduction of security, its varied domains, and its implications in any working organization; moreover, it will talk about the risk factor of various attacks and threats. The concept of privacy and anonymity has been taken into consideration in consecutive chapters. Various topics including, The Onion Router (TOR) and other anonymous services, are precisely discussed with a practical approach. Further, chapters to learn the importance of preventive measures such as intrusion detection system (IDS) are also covered. Due to the existence of severe cyberattacks, digital forensics is a must for investigating the crime and to take precautionary measures for the future occurrence of such attacks. A detailed description of cyberinvestigation is covered in a chapter to get readers acquainted with the need and demands. This chapter deals with evidence collection from the victim's device and the system that has importance in the context of an investigation. Content covered in all chapters is foremost and reported in the current trends in several journals and cybertalks. The proposed book is helpful for any reader who is using a computer or any such electronic gadget in their daily routine. The content of the book is prepared to work as a resource to any undergraduate and graduate-level student to get aware about the concept of cybersecurity, various cyberattacks, and threats in the security. In addition to that, it aimed at assisting researchers and developers to build a strong foundation for security provisioning in any newer technology which they are developing.

Managing Information Security Risks Apr 06 2021 Describing OCTAVE (Operationally Critical Threat, Asset and Vulnerability Evaluation), a method of evaluating information security risk, this text should be of interest to risk managers.

Game Theoretic Risk Analysis of Security Threats Aug 10 2021 Game Theoretic Risk Analysis of Security Threats introduces reliability and risk analysis in the face of threats by intelligent agents. More specifically, game-theoretic models are developed for identifying optimal and/or equilibrium defense and attack strategies in systems of varying degrees of complexity. The book covers applications to networks, including problems in both telecommunications and transportation. However, the book’s primary focus is to integrate game theory and reliability methodologies into a set of techniques to predict, detect, diminish, and stop intentional attacks at targets that vary in complexity. In this book, Bier and Azaiez highlight work by researchers who combine reliability and risk analysis with game theory methods to create a set of functional tools that can be used to offset intentional, intelligent threats (including threats of terrorism and war). These tools will help to address problems of global security and facilitate more cost-effective defensive investments.

Security Software Development Mar 17 2022 Threats to application security continue to evolve just as quickly as the systems that protect against cyber-threats. In many instances, traditional firewalls and other conventional controls can no longer get the job done. The latest line of defense is to build security features into software as it is being developed. Drawing from the author’s extensive experience as a developer, Secure Software Development: Assessing and Managing Security Risks illustrates how software application security can be best, and most cost-effectively, achieved when developers monitor and regulate risks early

on, integrating assessment and management into the development life cycle. This book identifies the two primary reasons for inadequate security safeguards: Development teams are not sufficiently trained to identify risks; and developers falsely believe that pre-existing perimeter security controls are adequate to protect newer software. Examining current trends, as well as problems that have plagued software security for more than a decade, this useful guide: Outlines and compares various techniques to assess, identify, and manage security risks and vulnerabilities, with step-by-step instruction on how to execute each approach Explains the fundamental terms related to the security process Elaborates on the pros and cons of each method, phase by phase, to help readers select the one that best suits their needs Despite decades of extraordinary growth in software development, many open-source, government, regulatory, and industry organizations have been slow to adopt new application safety controls, hesitant to take on the added expense. This book improves understanding of the security environment and the need for safety measures. It shows readers how to analyze relevant threats to their applications and then implement time- and money-saving techniques to safeguard them.

Implications of Artificial Intelligence for Cybersecurity May 27 2020 In recent years, interest and progress in the area of artificial intelligence (AI) and machine learning (ML) have boomed, with new applications vigorously pursued across many sectors. At the same time, the computing and communications technologies on which we have come to rely present serious security concerns: cyberattacks have escalated in number, frequency, and impact, drawing increased attention to the vulnerabilities of cyber systems and the need to increase their security. In the face of this changing landscape, there is significant concern and interest among policymakers, security practitioners, technologists, researchers, and the public about the potential implications of AI and ML for cybersecurity. The National Academies of Sciences, Engineering, and Medicine convened a workshop on March 12-13, 2019 to discuss and explore these concerns. This publication summarizes the presentations and discussions from the workshop.

Understanding and Using C Pointers Sep 30 2020 Improve your programming through a solid understanding of C pointers and memory management. With this practical book, you'll learn how pointers provide the mechanism to dynamically manipulate memory, enhance support for data structures, and enable access to hardware. Author Richard Reese shows you how to use pointers with arrays, strings, structures, and functions, using memory models throughout the book. Difficult to master, pointers provide C with much flexibility and power—yet few resources are dedicated to this data type. This comprehensive book has the information you need, whether you're a beginner or an experienced C or C++ programmer or developer. Get an introduction to pointers, including the declaration of different pointer types Learn about dynamic memory allocation, de-allocation, and alternative memory management techniques Use techniques for passing or returning data to and from functions Understand the fundamental aspects of arrays as they relate to pointers Explore the basics of strings and how pointers are used to support them Examine why pointers can be the source of security problems, such as buffer overflow Learn several pointer techniques, such as the use of opaque pointers, bounded pointers and, the restrict keyword

Detecting and Mitigating Robotic Cyber Security Risks Jan 15 2022 Risk detection and cyber security play a vital role in the use and success of contemporary computing. By utilizing the latest technological advances, more effective prevention techniques can be developed to protect against cyber threats. Detecting and Mitigating Robotic Cyber Security Risks is an essential reference publication for the latest research on new methodologies and applications in the areas of robotic and digital security. Featuring extensive coverage on a broad range of topics, such as authentication techniques, cloud security, and mobile robotics, this book is ideally designed for students, researchers, scientists, and engineers seeking current research on methods, models, and implementations of optimized security in digital contexts.

Deep Learning Approaches for Security Threats in IoT Environments Aug 18 2019 Deep Learning Approaches for Security Threats in IoT Environments An expert discussion of the application of deep learning methods in the IoT security environment In Deep Learning Approaches for Security Threats in IoT Environments, a team of distinguished cybersecurity educators deliver an insightful and robust exploration of how to approach and measure the security of Internet-of-Things (IoT) systems and networks. In this book, readers will examine critical concepts in artificial intelligence (AI) and IoT, and apply effective strategies to help secure and protect IoT networks. The authors discuss supervised, semi-supervised, and unsupervised deep learning techniques, as well as reinforcement and federated learning methods for privacy preservation. This book applies deep learning approaches to IoT networks and solves the security problems that professionals frequently encounter when working in the field of IoT, as well as providing ways in which smart devices can solve cybersecurity issues. Readers will also get access to a companion website with PowerPoint presentations, links to supporting videos, and additional resources. They'll also find: A thorough introduction to artificial intelligence and the Internet of Things, including key concepts like deep learning, security, and privacy Comprehensive discussions of the architectures, protocols, and standards that form the foundation of deep learning for securing modern IoT systems and networks In-depth examinations of the architectural design of cloud, fog, and edge computing networks Fulsome presentations of the security requirements, threats, and countermeasures relevant to IoT networks Perfect for professionals working in the AI, cybersecurity, and IoT industries, Deep Learning Approaches for Security Threats in IoT Environments will also earn a place in the libraries of undergraduate and graduate students studying deep learning, cybersecurity, privacy preservation, and the security of IoT networks.

Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications Oct 12 2021 Cyber security has become a topic of concern over the past decade as private industry, public administration, commerce, and communication have gained a greater online presence. As many individual and organizational activities continue to evolve in the digital sphere, new vulnerabilities arise. Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats. Including innovative studies on cloud security, online threat protection, and cryptography, this multi-volume book is an ideal source for IT specialists, administrators, researchers, and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information.

National Security Issues in Science, Law, and Technology Dec 02 2020 The tragedy of 9/11 placed homeland security and the prevention of further attacks into the central focus of our national consciousness. With so many avenues of terror open to our enemies in terms of mode, medium, and location, effective management and mitigation of threat must be grounded in objective risk assessment. The structure of national security decisions should be premised on decision theory and science with minimal political posturing or emotional reactivisim. National Security Issues in Science, Law, and Technology demonstrates a mature look at a frightening subject and presents sound, unbiased tools with which to approach any situation that may threaten human lives. By applying the best of scientific decision-making practices this book introduces the concept of risk management and its application in the structure of national security decisions. It examines the acquisition and utilization of all-source intelligence, including the ability to analyze data and forecast patterns, to enable policymakers to make better informed decisions. The text addresses reaction and prevention strategies applicable to chemical, biological, and nuclear weapons; agricultural terrorism; cyberterrorism; and other potential threats to our critical infrastructure. It discusses legal issues that inevitably arise when integrating new legislation with the threads of our Constitution and illustrates the dispassionate analysis of our intelligence, law enforcement, and military operations and actions. Finally, the book considers the redirection of our national research and laboratory system to investigate the very problems terrorists can induce through the use of weapons we have as yet to confront. Taking the guesswork out of hard choices, National Security Issues in Science, Law, and Technology provides anyone burdened with the mantle of responsibility for the protection of the American people with the tools to make sound, well-informed decisions.

Understanding Security Issues May 19 2022 With the threats that affect every computer, phone or other device connected to the internet, security has become a responsibility not just for law enforcement authorities or business leaders, but for every individual. Your family, information, property, and business must be protected from cybercriminals in the office, at home, on travel, and in the cloud. Understanding Security Issues provides a solid understanding of the threats, and focuses on useful tips and practices for protecting yourself, all the time, everywhere and anywhere you go. This book discusses security awareness issues and how you can take steps to reduce the risk of becoming a victim: The threats that face every individual and business, all the time. Specific indicators of threats so that you understand when you might be attacked and what to do if they occur. The security mindset and good security practices. Assets that

need to be protected at work and at home. Protecting yourself and your business at work. Protecting yourself and your family at home. Protecting yourself and your assets on travel.
Fitting Security Into the Swiss Value Landscape Dec 22 2019 What comes to people's minds when they think of security? Is there a relationship between global security threats and local, everyday events that influence our feeling of security? Drawing from telephone interviews of 1,000 Swiss citizens, this work attempts to provide a missing link between the spheres of personal and public security. Based on empirical data and using quantitative statistical methods such as correspondence analysis and logistic regression, security is conceived through the statements of common citizens. What emerges is a fascinating portrait of the different notions of security in contemporary Switzerland.
Security 2020 Feb 04 2021 Identify real security risks and skip the hype After years of focusing on IT security, we find that hackers are as active and effective as ever. This book gives application developers, networking and security professionals, those that create standards, and CIOs a straightforward look at the reality of today's IT security and a sobering forecast of what to expect in the next decade. It debunks the media hype and unnecessary concerns while focusing on the knowledge you need to combat and prioritize the actual risks of today and beyond. IT security needs are constantly evolving; this guide examines what history has taught us and predicts future concerns Points out the differences between artificial concerns and solutions and the very real threats to new technology, with startling real-world scenarios Provides knowledge needed to cope with emerging dangers and offers opinions and input from more than 20 noteworthy CIOs and business executives Gives you insight to not only what these industry experts believe, but also what over 20 of their peers believe and predict as well With a foreword by security expert Bruce Schneier, Security 2020: Reduce Security Risks This Decade supplies a roadmap to real IT security for the coming decade and beyond.
Asia-Pacific Security Challenges Dec 26 2022 This edited book examines the contemporary regional security concerns in the Asia-Pacific recognizing the 'Butterfly effect', the concept that small causes can have large effects: 'the flap of a butterfly's wings can cause a typhoon halfway around the world'. For many Asia-Pacific states, domestic security challenges are at least as important as external security considerations. Recent events (both natural disasters and man-made disasters) have pointed to the inherent physical, economic, social and political vulnerabilities that exist in the region. Both black swan events and persistent threats to security characterize the challenges within the Asia-Pacific region. Transnational security challenges such as global climate change, environmental degradation, pandemics, energy security, supply chain security, resource scarcity, terrorism and organized crime are shaping the security landscape regionally and globally. The significance of emerging transnational security challenges in the Asia-Pacific Region impact globally and conversely, security developments in those other regions affect the Asia-Pacific region.
Understanding New Security Threats Nov 25 2022 This textbook examines non-traditional forms of security and expands the notion of security to include non-state actors and non-human actors. Proposing an expansive view of non-traditional forms of security that go beyond traditionally recognized issues of threats to state and national territory, this new textbook rests on the following premises: traditional state-centered threats, such as nuclear proliferation and espionage, remain a concern; old and new threats combine and create interlocking puzzles—a feature of wicked problems and wicked messes; because of the global erosion of borders, new developments of unconventional insecurity interact in ways that frustrate traditional conceptual definitions, conceptual maps, and national policies; unconventional security challenges which have traditionally been seen as "low politics" or "soft" issues are now being recognized as "hard security" challenges in the twenty-first century; many of the so-called "new" threats detailed here are in fact very old: diseases, gender violence, food insecurity, under-development, and crime are all traditional security threats, but deeply modified today by globalization. The chapters offer local and global examples and engage with various theoretical approaches to help readers see the bigger picture. Solutions are also suggested to these problems. Each chapter contains discussion questions to help readers understand the key points and facilitate class discussion. This book will be of great interest to students of international security studies, human security, global politics, and international relations.
China as a Security Concern in Asia Nov 01 2020
Exploring the Security Landscape: Non-Traditional Security Challenges May 07 2021 This book provides international perspective for those studying or working in the security domain, from enforcement to policy. It focuses on non-traditional threats in a landscape that has been described as transnational in nature and incorporates natural disasters, gang violence, extremism and terrorism, amongst other issues. Chapters provide innovative thinking on themes including cyber security, maritime security, transnational crime, human security, globalization and economic security. Relevant theoretical frameworks are presented and readers are expertly guided through complex threats, from matters pertaining to health security which pose threats not only to humans but also have significant national security implications, to issues regarding critical infrastructure vulnerability and the complexity of understanding terrorist operations. Authors reveal how emerging uncertainties regarding global critical infrastructure and supply chain security, food security, and health security are linked to the notion of human security. Security professionals, policy makers and academics will all gain from the insights, strategies and perspectives in this book. It builds understanding of the deepening and broadening domain of security studies and provides a valuable reference text for courses on security studies and international relations.
Cyber-Security Threats, Actors, and Dynamic Mitigation Oct 24 2022 Cyber-Security Threats, Actors, and Dynamic Mitigation provides both a technical and state-of-the-art perspective as well as a systematic overview of the recent advances in different facets of cyber-security. It covers the methodologies for modeling attack strategies used by threat actors targeting devices, systems, and networks such as smart homes, critical infrastructures, and industrial IoT. With a comprehensive review of the threat landscape, the book explores both common and sophisticated threats to systems and networks. Tools and methodologies are presented for precise modeling of attack strategies, which can be used both proactively in risk management and reactively in intrusion prevention and response systems. Several contemporary techniques are offered ranging from reconnaissance and penetration testing to malware detection, analysis, and mitigation. Advanced machine learning-based approaches are also included in the area of anomaly-based detection, that are capable of detecting attacks relying on zero-day vulnerabilities and exploits. Academics, researchers, and professionals in cyber-security who want an in-depth look at the contemporary aspects of the field will find this book of interest. Those wanting a unique reference for various cyber-security threats and how they are detected, analyzed, and mitigated will reach for this book often.
Privacy and Security Challenges in Location Aware Computing Jan 23 2020 Location-aware computing is a technology that uses the location (provides granular geographical information) of people and objects to derive contextual information. Today, one can obtain this location information free of cost through smartphones. Smartphones with location enabled applications have revolutionized the ways in which people perform their activities and get benefits from the automated services. It especially helps to get details of services in less time; wherever the user may be and whenever they want. The need for smartphones and location enabled applications has been growing year after year. Nowadays no one can leave without their phone; the phone seemingly becomes one of the parts of the human body. The individual can now be predicted by their phone and the identity of the phone becomes the person's identity. Though there is a tremendous need for location-enabled applications with smartphones, the debate on privacy and security related to location data has also been growing. Privacy and Security Challenges in Location Aware Computing provides the latest research on privacy enhanced location-based applications development and exposes the necessity of location privacy preservation, as well as issues and challenges related to protecting the location data. It also suggests solutions for enhancing the protection of location privacy and therefore users' privacy as well. The chapters highlight important topic areas such as video surveillance in human tracking/detection, geographical information system design, cyberspace attacks and warfare, and location aware security systems. The culmination of these topics creates a book that is ideal for security analysts, mobile application developers, practitioners, academicians, students, and researchers.
Container Security Jan 03 2021 To facilitate scalability and resilience, many organizations now run applications in cloud native environments using containers and orchestration. But how do you know if the deployment is secure? This practical book examines key underlying technologies to help developers, operators, and security professionals assess security risks and determine appropriate solutions. Author Liz Rice, Chief Open Source Officer at Isovalent, looks at how the building blocks commonly used in container-

based systems are constructed in Linux. You'll understand what's happening when you deploy containers and learn how to assess potential security risks that could affect your deployments. If you run container applications with kubectl or docker and use Linux command-line tools such as ps and grep, you're ready to get started. Explore attack vectors that affect container deployments Dive into the Linux constructs that underpin containers Examine measures for hardening containers Understand how misconfigurations can compromise container isolation Learn best practices for building container images Identify container images that have known software vulnerabilities Leverage secure connections between containers Use security tooling to prevent attacks on your deployment

Cyberspace and National Security Feb 22 2020 In a very short time, individuals and companies have harnessed cyberspace to create new industries, a vibrant social space, and a new economic sphere that are intertwined with our everyday lives. At the same time, individuals, subnational groups, and governments are using cyberspace to advance interests through malicious activity. Terrorists recruit, train, and target through the Internet, hackers steal data, and intelligence services conduct espionage. Still, the vast majority of cyberspace is civilian space used by individuals, businesses, and governments for legitimate purposes. Cyberspace and National Security brings together scholars, policy analysts, and information technology executives to examine current and future threats to cyberspace. They discuss various approaches to advance and defend national interests, contrast the US approach with European, Russian, and Chinese approaches, and offer new ways and means to defend interests in cyberspace and develop offensive capabilities to compete there. Policymakers and strategists will find this book to be an invaluable resource in their efforts to ensure national security and answer concerns about future cyberwarfare.

Coping with Global Environmental Change, Disasters and Security Apr 25 2020 Coping with Global Environmental Change, Disasters and Security - Threats, Challenges, Vulnerabilities and Risks reviews conceptual debates and case studies focusing on disasters and security threats, challenges, vulnerabilities and risks in Europe, the Mediterranean and other regions. It discusses social science concepts of vulnerability and risks, global, regional and national security challenges, global warming, floods, desertification and drought as environmental security challenges, water and food security challenges and vulnerabilities, vulnerability mapping of environmental security challenges and risks, contributions of remote sensing to the recognition of security risks, mainstreaming early warning of conflicts and hazards and provides conceptual and policy conclusions.

Managing New Security Threats in the Caribbean Oct 20 2019 This book examines non-traditional forms of security and expands the notion of security to include non-state actors and non-human actors. With a wide-ranging look into some of the new security threats facing state and non-state actors today, this book is designed to specifically offer new angles on tackling these threats in the Caribbean region. It explores issues relating to viruses, war and conflict, migration, geopolitics, climate change and terrorism through multi- and interdisciplinary perspectives on global (in-)securities. Each chapter clearly elucidates the connectedness of these non-traditional threats, drawing on a remarkable number of the most recent reports and scholarly works. Most importantly, there is a lack of Caribbean studies in the security themes that are studied. This book is a much needed and timely addition to intellectual thought on Caribbean security in an increasingly fragmented world. It will be of great interest to students of international security studies, human security, global politics, and international relations. Georgina Chami is Lecturer, Institute of International Relations, University of the West Indies, St. Augustine, Trinidad and recipient of the Central America/Caribbean Fulbright Visiting Scholars Program in 2010 Jerome Teelucksingh is Senior Lecturer, in the Faculty of Humanities and Education at The University of the West Indies, St. Augustine Campus, Trinidad. Marlon Anatol is Lecturer at the Open Campus, University of the West Indies, Trinidad.

SOHO Networking Aug 30 2020 Explains how to choose equipment, set up a network, share resources and Internet connections, and secure a network.

India's Security Concerns in the Indian Ocean Region Jul 21 2022 At the cusp of the 21st Century, the security of the Indian Ocean region continues to be confronted with boundless threats, more from non-traditional sources, that have obviously become manifold in the Post-Cold War era. These threats emanate from non-military sources like drug-trafficking, frequent cross-border terrorism, proliferation of small arms, demographic disequilibrium , spill-over effects of domestic violence, resource depletion, some ethno-religious and tribal conflicts, etc.

IoT Security Issues Sep 11 2021 IoT Security Issues looks at the burgeoning growth of devices of all kinds controlled over the Internet of all varieties, where product comes first and security second. In this case, security trails badly. This book examines the issues surrounding these problems, vulnerabilities, what can be done to solve the problem, investigating the stack for the roots of the problems and how programming and attention to good security practice can combat the problems today that are a result of lax security processes on the Internet of Things. This book is for people interested in understanding the vulnerabilities on the Internet of Things, such as programmers who have not yet been focusing on the IoT, security professionals and a wide array of interested hackers and makers. This book assumes little experience or knowledge of the Internet of Things. To fully appreciate the book, limited programming background would be helpful for some of the chapters later in the book, though the basic content is explained. The author, Alasdair Gilchrist, has spent 25 years as a company director in the fields of IT, Data Communications, Mobile Telecoms and latterly Cloud/SDN/NFV technologies, as a professional technician, support manager, network and security architect. He has project-managed both agile SDLC software development as well as technical network architecture design. He has experience in the deployment and integration of systems in enterprise, cloud, fixed/mobile telecoms, and service provider networks. He is therefore knowledgeable in a wide range of technologies and has written a number of books in related fields.

Security 2020 Nov 20 2019

Securing the Internet of Things Feb 16 2022 Securing the Internet of Things provides network and cybersecurity researchers and practitioners with both the theoretical and practical knowledge they need to know regarding security in the Internet of Things (IoT). This booming field, moving from strictly research to the marketplace, is advancing rapidly, yet security issues abound. This book explains the fundamental concepts of IoT security, describing practical solutions that account for resource limitations at IoT end-node, hybrid network architecture, communication protocols, and application characteristics. Highlighting the most important potential IoT security risks and threats, the book covers both the general theory and practical implications for people working in security in the Internet of Things. Helps researchers and practitioners understand the security architecture in IoT and the state-of-the-art in IoT security countermeasures Explores how the threats in IoT are different from traditional ad hoc or infrastructural networks Provides a comprehensive discussion on the security challenges and solutions in RFID, WSNs, and IoT Contributed material by Dr. Imed Romdhani

Exploding Data Jun 27 2020 A powerful argument for new laws and policies regarding cyber-security, from the former US Secretary of Homeland Security. The most dangerous threat we-individually and as a society-face today is no longer military, but rather the increasingly pervasive exposure of our personal information; nothing undermines our freedom more than losing control of information about ourselves. And yet, as daily events underscore, we are ever more vulnerable to cyber-attack. In this bracing book, Michael Chertoff makes clear that our laws and policies surrounding the protection of personal information, written for an earlier time, need to be completely overhauled in the Internet era. On the one hand, the collection of data-more widespread by business than by government, and impossible to stop-should be facilitated as an ultimate protection for society. On the other, standards under which information can be inspected, analysed or used must be significantly tightened. In offering his compelling call for action, Chertoff argues that what is at stake is not only the simple loss of privacy, which is almost impossible to protect, but also that of individual autonomy-the ability to make personal choices free of manipulation or coercion. Offering colourful stories over many decades that illuminate the three periods of data gathering we have experienced, Chertoff explains the complex legalities surrounding issues of data collection and dissemination today and charts a forceful new strategy that balances the needs of government, business and individuals alike.

Handbook of Research on Network Forensics and Analysis Techniques Nov 13 2021 With the rapid advancement in technology, myriad new threats have emerged in online environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. The Handbook of Research on Network Forensics and Analysis Techniques is a current research publication that examines the advancements and growth of forensic research from a relatively obscure tradecraft to an

important part of many investigations. Featuring coverage on a broad range of topics including cryptocurrency, hand-based biometrics, and cyberterrorism, this publication is geared toward professionals, computer forensics practitioners, engineers, researchers, and academics seeking relevant research on the development of forensic tools.