Elementary Information Security Second Edition

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COSTA HOOD

The Elements of Computing Systems National Academies Press
Distributed and peer-to-peer (P2P) applications are increasing daily, and cyberattacks are constantly adopting new mechanisms to threaten the security and privacy of users in these Internet of Things (IoT) environments. Blockchain, a decentralized cryptographic-based technology, is a promising element for IoT security in manufacturing, finance, healthcare, supply chain, identity management, e-governance, defence, education, banking, and trading. Blockchain has the potential to secure IoT through repetition, changeless capacity, and encryption. Blockchain for Information Security and Privacy provides essential knowledge of blockchain usage in the mainstream areas of security, trust, and privacy in decentralized domains. This book is a source of technical information regarding blockchain-oriented software and applications. It provides tools to researchers and developers in both computing and software engineering to develop solutions and automated systems that can promote security, trust, and privacy in cyberspace. FEATURES Applying blockchain-based secured data management in confidential cyberdefense applications Securing online voting systems using blockchain Safeguarding electronic healthcare record (EHR) management using blockchain Impacting security and privacy in digital identity management Using blockchain-based security and privacy for smart contracts By providing an overview of blockchain technology application domains in IoT (e.g., vehicle web, power web, cloud internet, and edge computing), this book features side-by-side comparisons of modern methods toward secure and privacy-preserving blockchain technology. It also examines safety objectives, efficiency, limitations, computational complexity, and communication overhead of various applications using blockchain. This book also addresses the combination of blockchain and industrial IoT. It explores novel various-levels of information sharing systems.
Global Information Warfare Routledge
PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, Fundamentals of Information System Security, Second Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.
The Routledge Handbook of Security Studies John Wiley & Sons
Research suggests that between 60-75% of all information security incidents are the result of a lack of knowledge and/or understanding amongst an organization's own staff. And yet the great majority of money spent protecting systems is focused on creating technical defences against external threats. Angus McIlwraith's book explains how corporate culture affects perceptions of risk and information security, and how this in turn affects employee behaviour. He then provides a pragmatic approach for educating and training employees in information security and explains how different metrics can be used to assess awareness and behaviour. Information security awareness will always be an ongoing struggle against complacency, problems associated with new systems and technology, and the challenge of other more glamorous and often short term priorities. Information Security and Employee Behaviour will help you develop the capability and culture that will enable your organization to avoid or reduce the impact of unwanted security breaches.
Still Learning to Read CRC Press
The Security Hippie is Barak Engel’s second book. As the originator of the “Virtual CISO” (fractional security chief) concept, he has served as security leader in dozens of notable organizations, such as Mulesoft, Stubhub, Amplitude Analytics, and many others. The Security Hippie follows his previous book, Why CISOs Fail, which became a sleeper hit, earning a spot in the Cybercannon project as a leading text on the topic of information security management. In this new book, Barak looks at security purely through the lens of story-telling, sharing many and varied experiences from his long and accomplished career as organizational and thought leader, and visionary in the information security field. Instead of instructing, this book teaches by example, sharing many real situations in the field and actual events from real companies, as well as Barak’s related takes and thought processes. An out-of-the-mainstream, counterculture thinker – Hippie – in the world of information security, Barak’s rich background and unusual approach to the field come forth in this book in vivid color and detail, allowing the reader to sit back and enjoy these experiences, and perhaps gain insights when faced with similar issues themselves or within their organizations. The author works hard to avoid technical terms as much as possible,

and instead focus on the human and behavioral side of security, finding the humor inherent in every anecdote and using it to demystify the field and connect with the reader. Importantly, these are not the stories that made the news; yet they are the ones that happen all the time. If you've ever wondered about the field of information security, but have been intimidated by it, or simply wished for more shared experiences, then The Security Hippie is the perfect way to open that window by accompanying Barak on some of his many travels into the land of security.

Information Security Pearson

The Internet of Things (IoT), with its technological advancements and massive innovations, is building the idea of inter-connectivity among everyday life objects. With an explosive growth in the number of Internet-connected devices, the implications of the idea of IoT on enterprises, individuals, and society are huge. IoT is getting attention from both academia and industry due to its powerful real-time applications that raise demands to understand the entire spectrum of the field. However, due to increasing security issues, safeguarding the IoT ecosystem has become an important concern. With devices and information becoming more exposed and leading to increased attack possibilities, adequate security measures are required to leverage the benefits of this emerging concept. Internet of Things Security: Principles, Applications, Attacks, and Countermeasures is an extensive source that aims at establishing an understanding of the core concepts of IoT among its readers and the challenges and corresponding countermeasures in the field. Key features: Containment of theoretical aspects, as well as recent empirical findings associated with the underlying technologies Exploration of various challenges and trade-offs associated with the field and approaches to ensure security, privacy, safety, and trust across its key elements Vision of exciting areas for future research in the field to enhance the overall productivity This book is suitable for industrial professionals and practitioners, researchers, faculty members, and students across universities who aim to carry out research and development in the field of IoT security.

Principles and Policies CRC Press

This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

Cyber Strategy CRC Press

This book provides a concise yet comprehensive overview of computer and Internet security, suitable for a one-term introductory course for junior/senior undergrad or first-year graduate students. It is also suitable for self-study by anyone seeking a solid footing in security – including software developers and computing professionals, technical managers and government staff. An overriding focus is on brevity, without sacrificing breadth of core topics or technical detail within them. The aim is to enable a broad understanding in roughly 350 pages. Further prioritization is supported by designating as optional selected content within this. Fundamental academic concepts are reinforced by specifics and examples, and related to applied problems and real-world incidents. The first chapter provides a gentle overview and 20 design principles for security. The ten chapters that follow provide a framework for understanding computer and Internet security. They regularly refer back to the principles, with supporting examples. These principles are the conceptual counterparts of security-related error patterns that have been recurring in software and system designs for over 50 years. The book is "elementary" in that it assumes no background in security, but unlike "soft" high-level texts it does not avoid low-level details, instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles. The book is rigorous in the sense of being technically sound, but avoids both mathematical proofs and lengthy source-code examples that typically make books inaccessible to general audiences. Knowledge of elementary operating system and networking concepts is helpful, but review sections summarize the essential background. For graduate students, inline exercises and supplemental references provided in per-chapter endnotes provide a bridge to further topics and a springboard to the research literature; for those in industry and government, pointers are provided to helpful surveys and relevant standards, e.g., documents from the Internet Engineering Task Force (IETF), and the U.S. National Institute of Standards and Technology.

Computer System and Network Security Elsevier

Navigate 2 Advantage Access For Elementary Information Security, Second Edition Is A Digital-Only Access Code That Unlocks A Comprehensive And Interactive Ebook, Student Practice Activities And Assessments, A Full Suite Of Instructor Resources, And Learning Analytics Reporting System. An Ideal Text For Introductory Information Security Courses, The Second Edition Of Elementary Information Security Provides A Comprehensive Yet Easy-To-Understand Introduction To The Complex World Of Cybersecurity And Technology. Thoroughly Updated With Recently Reported Cybersecurity Incidents, This Essential Text Enables Students To Gain Direct Experience By Analyzing Security Problems And Practicing Simulated Security Activities. Emphasizing Learning Through Experience, Elementary Information Security, Second Edition Addresses Technologies And Cryptographic Topics Progressing From Individual Computers To More Complex Internet-Based Systems. With Navigate 2, Technology And Content Combine To Expand The Reach Of Your Classroom. Whether You Teach An Online, Hybrid, Or Traditional Classroom-Based Course, Navigate 2 Delivers Unbeatable Value. Experience Navigate 2 Today At Www.Jblnavigate.Com/2 Key Features Of The Updated Second Edition Include: •Access To Navigate 2 Online Learning Materials Including A Comprehensive And Interactive Ebook, Student Practice Activities And Assessments, Learning Analytics Reporting Tools, And More • Use Of The Nationally Recognized NIST Risk Management Framework To Illustrate The Cybersecurity Process •Comprehensive Coverage And Full Compliance Of All Topics Required For U.S. Government Courseware Certification NSTISSI 4011 •Presents Security Issues Through Simple Business-Oriented Case Studies To Make Cybersecurity Technology And Problem-Solving Interesting And Relevant •Provides Tutorial Material On The Computing Technologies That Underlie The Security Problems And Solutions •Available In Our Customizable PUBLISH Platform

Web Programming and Internet Technologies World Book

Introduction to Machine Learning with Applications in Information Security provides a class-tested introduction to a wide variety of machine learning algorithms, reinforced through realistic

applications. The book is accessible and doesn’t prove theorems, or otherwise dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to clarify the underlying concepts. The book covers core machine learning topics in-depth, including Hidden Markov Models, Principal Component Analysis, Support Vector Machines, and Clustering. It also includes coverage of Nearest Neighbors, Neural Networks, Boosting and AdaBoost, Random Forests, Linear Discriminant Analysis, Vector Quantization, Naive Bayes, Regression Analysis, Conditional Random Fields, and Data Analysis. Most of the examples in the book are drawn from the field of information security, with many of the machine learning applications specifically focused on malware. The applications presented are designed to demystify machine learning techniques by providing straightforward scenarios. Many of the exercises in this book require some programming, and basic computing concepts are assumed in a few of the application sections. However, anyone with a modest amount of programming experience should have no trouble with this aspect of the book. Instructor resources, including PowerPoint slides, lecture videos, and other relevant material are provided on an accompanying website: http://www.cs.sjsu.edu/~stamp/ML/. For the reader’s benefit, the figures in the book are also available in electronic form, and in color. About the Author Mark Stamp has been a Professor of Computer Science at San Jose State University since 2002. Prior to that, he worked at the National Security Agency (NSA) for seven years, and a Silicon Valley startup company for two years. He received his Ph.D. from Texas Tech University in 1992. His love affair with machine learning began in the early 1990s, when he was working at the NSA, and continues today at SJSU, where he has supervised vast numbers of master’s student projects, most of which involve a combination of information security and machine learning.

The New Digital Battlefield, Second Edition CRC Press

Since the turn of the century much has happened in politics, governments, spying, technology, global business, mobile communications, and global competition on national and corporate levels. These sweeping changes have nearly annihilated privacy anywhere in the world and have also affected how global information warfare is waged and what must be done to counter its attacks. In light of increased attacks since 2002, Global Information Warfare: The New Digital Battlefield, Second Edition provides a critical update on the nature and approaches to global information warfare. It focuses on threats, vulnerabilities, attacks, and defenses from the perspectives of various players such as governments, corporations, terrorists, and private citizens. Upgrades to the Second Edition Include: Revised discussions of changes and impacts of global information warfare since 2002 Updated analyses of the capabilities of several nation-states as well as nonstate actors A comprehensive list of incidents that have occurred in the past year to show the scope of the problem of GIW Discussions of post-9/11 governmental changes and shifting priorities with clearer hindsight than was possible in the first edition The book underscores how hostile countries, business competitors, terrorists, and others are waging information warfare against adversaries, even from across the globe. It describes attacks on information systems through theft, Internet espionage, deception, and sabotage, and illustrates countermeasures used to defeat these threats. The second edition of Global Information Warfare contains a wealth of information and detailed analyses of capabilities of contemporary information technology and the capabilities of the individuals and groups who employ it in their respective digital wars. It is a crucial source for gaining the best understanding of the current state of information warfare and the most effective ways to counter it.

What Every Business Student Needs to Know Jones & Bartlett Learning

Describes the philosophy of the Daily 5 teaching structure and includes a collection of literacy tasks for students to complete daily.

Computer and Cyber Security Routledge

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book.

The Principles and Practice of Cryptography and Network Security Stallings’ Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the practice of network security: practical applications that have been implemented and are in use to provide network security. The Seventh Edition streamlines subject matter with new and updated material — including Sage, one of the most important features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer algebra system. It provides hands-on experience with cryptographic algorithms and supporting homework assignments. With Sage, the reader learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to ensure a successful learning experience.

Risk-Driven Security and Resiliency Mit Press

Computer System and Network Security provides the reader with a basic understanding of the issues involved in the security of computer systems and networks. Introductory in nature, this important new book covers all aspects related to the growing field of computer security. Such complete coverage in a single text has previously been unavailable, and college professors and students, as well as professionals responsible for system security, will find this unique book a valuable source of information, either as a textbook or as a general reference. Computer System and Network Security discusses existing and potential threats to computer systems and networks and outlines the basic actions that are generally taken to protect them. The first two chapters of the text introduce the reader to the field of computer security, covering fundamental issues and objectives. The next several chapters describe security models, authentication issues, access control, intrusion detection, and damage control. Later chapters address network and database security and systems/networks connected to wide-area networks and internetworks. Other topics include firewalls, cryptography, malicious software, and security standards. The book includes case studies with information about incidents involving computer security, illustrating the problems and potential damage that can be caused when security fails. This unique reference/textbook covers all aspects of computer and network security, filling an obvious gap in the existing literature.

Routledge Companion to Global Cyber-Security Strategy CRC Press

Elementary Information SecurityJones &

Bartlett Publishers
Second Edition Elementary Information Security
This companion provides the most comprehensive and up-to-date comparative overview of the cyber-security strategies and doctrines of the major states and actors in Europe, North America, South America, Africa, and Asia. The volume offers an introduction to each nation’s cyber-security strategy and policy, along with a list of resources in English that may be consulted for those wishing to go into greater depth. Each chapter is written by a leading academic or policy specialist, and contains the following sections: overview of national cyber-security strategy; concepts and definitions; exploration of cyber-security issues as they relate to international law and governance; critical examinations of cyber partners at home and abroad; legislative developments and processes; dimensions of cybercrime and cyberterrorism; implications of cyber-security policies and strategies. This book will be of much interest to students and practitioners in the fields of cyber-security, national security, strategic studies, foreign policy, and international relations.
Safeguarding Your Technology Elsevier
Focusing on contemporary challenges, this major new Handbook offers a wide-ranging collection of cutting-edge essays from leading scholars in the field of Security Studies. The field of Security Studies has undergone significant change during the past twenty years, and is now one of the most dynamic sub-disciplines within International Relations. It now encompasses issues ranging from pandemics and environmental degradation to more traditional concerns about direct violence, such as those posed by international terrorism and inter-state armed conflict. A comprehensive volume, comprising articles by both established and up-and-coming scholars, the Handbook of Security Studies identifies the key contemporary topics of research and debate today. This Handbook is a benchmark publication with major importance both for current research and the future of the field. It will be essential reading for all scholars and students of Security Studies, War and Conflict Studies, and International Relations.
A Systems Approach Packt Publishing Ltd
"With almost a thousand imaginative exercises and problems, this book stimulates curiosity about numbers and their properties."
Cryptography and Network Security CRC Press
Most information systems textbooks overwhelm business students with overly technical information they may not need in their careers. Information Systems: What Every Business Student Needs to Know takes a new approach to the required information systems course for business majors.For each topic covered, the text highlights key "Take-Aways" that aler
Principles, Applications, Attacks, and Countermeasures CRC Press
When it comes to computer crimes, the criminals got a big head start. But the law enforcement and IT security communities are now working diligently to develop the knowledge, skills, and tools to successfully investigate and prosecute Cybercrime cases. When the first edition of "Scene of the Cybercrime" published in 2002, it was one of the first books that educated IT security professionals and law enforcement how to fight Cybercrime. Over the past 5 years a great deal has changed in how computer crimes are perpetrated and subsequently investigated. Also, the IT security and law enforcement communities have dramatically improved their ability to deal with Cybercrime, largely as a result of increased spending and training. According to the 2006 Computer Security Institute's and FBI's joint Cybercrime report: 52% of companies reported unauthorized use of computer systems in the prior 12 months. Each of these incidents is a Cybecrime requiring a certain level of investigation and remediation. And in many cases, an investigation is mandates by federal compliance regulations such as Sarbanes-Oxley, HIPAA, or the Payment Card Industry (PCI) Data Security Standard. Scene of the Cybercrime, Second Edition is a completely revised and updated book which covers all of the technological, legal, and regulatory changes, which have occurred since the first edition. The book is written for dual audience; IT security professionals and members of law enforcement. It gives the technical experts a little peek into the law enforcement world, a highly structured environment where the "letter of the law" is paramount and procedures must be followed closely lest an investigation be contaminated and all the evidence collected rendered useless. It also provides law enforcement officers with an idea of some of the technical aspects of how cyber crimes are committed, and how technology can be used to track down and build a case against the criminals who commit them. Scene of the Cybercrime, Second Editions provides a roadmap that those on both sides of the table can use to navigate the legal and technical landscape to understand, prevent, detect, and successfully prosecute the criminal behavior that is as much a threat to the online community as "traditional" crime is to the neighborhoods in which we live. Also included is an all new chapter on Worldwide Forensics Acts and Laws. * Companion Web site provides custom tools and scripts, which readers can download for conducting digital, forensic investigations. * Special chapters outline how Cybercrime investigations must be reported and investigated by corporate IT staff to meet federal mandates from Sarbanes Oxley, and the Payment Card Industry (PCI) Data Security Standard * Details forensic investigative techniques for the most common operating systems (Windows, Linux and UNIX) as well as cutting edge devices including iPods, Blackberries, and cell phones.
Tools and Jewels CRC Press
This volume constitutes the proceedings of the Third European Symposium on Research in Computer Security, held in Brighton, UK in November 1994. The 26 papers presented in the book in revised versions were carefully selected from a total of 79 submissions; they cover many current aspects of computer security research and advanced applications. The papers are grouped in sections on high security assurance software, key management, authentication, digital payment, distributed systems, access control, databases, and measures.