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Cyber Crime Investigator's Field Guide, Second Edition
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Cyber-threats, Information Warfare, and Critical Infrastructure Protection
Developing Next-Generation Countermeasures for Homeland Security Threat Prevention

Information or Disinformation?
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The NICE Cyber Security Framework
Securing Critical Infrastructure Networks for Smart Grid, SCADA, and Other Industrial Control Systems
National cyber security : framework manual
Knapsack Problems
Managing the Complexity of Critical Infrastructures
Enhancing the Resilience of the Nation's Electricity System
Proceedings of the 6th International Conference and Exhibition on Smart Grids and Smart Cities
Handbook of SCADA/Control Systems Security
Explore the concepts, tools, and techniques to analyze and investigate Windows malware
A Modelling and Simulation Approach
Socio-Technological Transformations and Political Fragmentation

NOELLE JORDAN

Commercial Communication in the Digital Age Createspace Independent Publishing Platform
Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers (CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.
Protecting Critical Infrastructure at the State and Local Level CRC Press
Information warfare is upon us. In the last two decades, the U.S. economy's

infrastructure has undergone a fundamental set of changes, relying increasingly on its service sector and high technology economy. The U.S. depends on computers, electronic data storage and transfers, and highly integrated communications networks. Its rapidly developing new form of critical infrastructure is exceedingly vulnerable to an emerging host of threats. This detailed volume examines the dangers of, and the evolving U.S. policy response to, cyberterrorism.

Cyber-security of SCADA and Other Industrial Control Systems CRC Press

The second edition of the definitive guide to cybersecurity law, updated to reflect recent legal developments The revised and updated second edition of Cybersecurity Law offers an authoritative guide to the key statutes, regulations, and court rulings that pertain to cybersecurity. Written by an experienced cybersecurity lawyer and law professor, the second edition includes new and expanded information that reflects the latest changes in laws and regulations. The book includes material on recent FTC data security consent decrees and data breach litigation. Topics covered reflect new laws, regulations, and court decisions that address financial sector cybersecurity, the law of war as applied to cyberspace, and recently updated guidance for public companies' disclosure of cybersecurity risks. This important guide: Provides a new appendix, with 15 edited opinions covering a wide range of cybersecurity-related topics, for students learning via the caselaw method Includes new sections that cover topics such as: compelled access to encrypted devices, New York's financial services cybersecurity regulations, South Carolina's insurance sector cybersecurity law, the Internet of Things, bug bounty programs, the vulnerability equities process, international enforcement of computer hacking laws, the California Consumer Privacy Act, and the European Union's Network and Information Security Directive Contains a new chapter on the critical topic of law of cyberwar Presents a comprehensive guide written by a noted expert on the topic Offers a companion Instructor-only website that features discussion questions for each chapter and suggested exam questions for each chapter Written for students and professionals of cybersecurity, cyber operations, management-oriented information technology (IT), and computer science, Cybersecurity Law, Second Edition is the up-to-date guide that covers the basic principles and the most recent information on cybersecurity laws and regulations. JEFF KOSSEFF is Assistant Professor of Cybersecurity Law at the United States Naval Academy in Annapolis, Maryland. He was a finalist for the Pulitzer Prize, and a recipient of the George Polk Award for national reporting.

Cyber-Physical Threat Intelligence for Critical Infrastructures Security UCL Press

Mandatory Reliability Standards for the Bulk-Power System (US Federal Energy Regulatory Commission Regulation) (FERC) (2018 Edition) The Law Library presents the complete text of the Mandatory Reliability Standards for the Bulk-Power System (US Federal Energy Regulatory Commission Regulation) (FERC) (2018 Edition). Updated as of May 29, 2018 Pursuant to section 215 of the Federal Power Act (FPA), the Commission approves 83 of 107 proposed Reliability

Standards, six of the eight proposed regional differences, and the Glossary of Terms Used in Reliability Standards developed by the North American Electric Reliability Corporation (NERC), which the Commission has certified as the Electric Reliability Organization (ERO) responsible for developing and enforcing mandatory Reliability Standards. Those Reliability Standards meet the requirements of section 215 of the FPA and Part 39 of the Commission's regulations. However, although we believe it is in the public interest to make these Reliability Standards mandatory and enforceable, we also find that much work remains to be done. Specifically, we believe that many of these Reliability Standards require significant improvement to address, among other things, the recommendations of the Blackout Report. Therefore, pursuant to section 215(d)(5), we require the ERO to submit significant improvements to 56 of the 83 Reliability Standards that are being approved as mandatory and enforceable. The remaining 24 Reliability Standards will remain pending at the Commission until further information is provided. This book contains: - The complete text of the Mandatory Reliability Standards for the Bulk-Power System (US Federal Energy Regulatory Commission Regulation) (FERC) (2018 Edition) - A table of contents with the page number of each section

Methods and Application in Environment, Cyber and Social Domains W. W. Norton & Company

This book provides a comprehensive overview of the fundamental security of Industrial Control Systems (ICSs), including Supervisory Control and Data Acquisition (SCADA) systems and touching on cyber-physical systems in general. Careful attention is given to providing the reader with clear and comprehensive background and reference material for each topic pertinent to ICS security. This book offers answers to such questions as: Which specific operating and security issues may lead to a loss of efficiency and operation? What methods can be used to monitor and protect my system? How can I design my system to reduce threats?This book offers chapters on ICS cyber threats, attacks, metrics, risk, situational awareness, intrusion detection, and security testing, providing an advantageous reference set for current system owners who wish to securely configure and operate their ICSs. This book is appropriate for non-specialists as well. Tutorial information is provided in two initial chapters and in the beginnings of other chapters as needed. The book concludes with advanced topics on ICS governance, responses to attacks on ICS, and future security of the Internet of Things.

Federal Register Auerbach Publications

A practical and effective blueprint for world-class cybersecurity risk management In Cybersecurity Risk Management: Mastering the Fundamentals Using the NIST Cybersecurity Framework, veteran technology analyst Cynthia Brumfield, with contributions from cybersecurity expert Brian Haugli, delivers a straightforward and up-to-date exploration of the fundamentals of cybersecurity risk planning and management. The book offers readers easy-to-understand overviews of cybersecurity risk management principles, user, and network infrastructure planning, as well as the tools and techniques for detecting cyberattacks. The book also provides a roadmap to the development of a continuity of operations plan in the event of a cyberattack. With incisive insights into the Framework for Improving Cybersecurity of Critical Infrastructure produced by the United States National Institute of Standards and Technology (NIST), Cybersecurity Risk Management presents the gold standard in practical guidance for the implementation of risk management best practices. Filled with clear and easy-to-follow advice, this book also offers readers: A concise introduction to the principles of cybersecurity risk management and the steps necessary to manage digital risk to systems, assets, data, and capabilities A valuable exploration of modern tools that can improve an organization’s network infrastructure protection A practical discussion of the challenges involved in detecting and responding to a cyberattack and the importance of continuous security monitoring A helpful examination of the recovery from cybersecurity incidents Perfect for undergraduate and graduate students studying cybersecurity, Cybersecurity Risk Management is also an ideal resource for IT professionals working in private sector and government organizations worldwide who are considering implementing or who may be required to implement, the NIST framework at their organization.

Defending the U.S. Homeland Springer

The movement toward miniaturized and mobile computing has created more opportunity for cyber thieves. To respond effectively, IT security professionals need a resource that combines the understanding of investigative techniques with the technical knowledge of cyberspace. Cyber Crime Investigator's Field Guide, Second Edition provides an investigative framework, demonstrates the knowledge of how cyberspace really works, and explains the tools needed to pursue cyber criminals. This volume provides the details of investigating computer crime from soup to nuts. It covers the entire investigative p.

Cyber Security Politics IGI Global

E-Books in Academic Libraries: Stepping Up to the Challenge provides readers with a view of the changing and emerging roles of electronic books in higher education. The three main sections contain contributions by experts in the publisher/vendor arena, as well as by librarians who report on both the challenges of offering and managing e-books and on the issues surrounding patron use of e-books. The case study section offers perspectives from seven different sizes and types of libraries whose librarians describe innovative and thought-provoking projects involving e-books.Read about perspectives on e-books from organizations as diverse as a commercial publisher and an association press. Learn about the viewpoint of a jobber. Find out about the e-book challenges facing librarians, such as the quest to control costs in the patron-driven acquisitions (PDA) model, how to solve the dilemma of resource sharing with e-books, and how to manage PDA in the consortial environment. See what patron use of e-books reveals about reading habits and disciplinary differences.Finally, in the case study section, discover how to promote scholarly e-books, how to manage an e-reader checkout program, and how one library replaced most of its print collection with e-books. These and other examples illustrate how innovative librarians use e-books to enhance users' experiences with scholarly works.

Industrial Network Security Springer

This textbook is for courses in cyber security education that follow National Initiative for Cybersecurity Education (NICE) KSAs work roles and framework, that adopt the Competency-Based Education (CBE) method. The book follows the CBT (KSA) general framework, meaning each chapter contains three sections, knowledge and questions, and skills/labs for Skills and Abilities. The author makes an explicit balance between knowledge and skills material in information security, giving readers immediate applicable skills. The book is divided into seven parts: Securely Provision; Operate and Maintain; Oversee and Govern; Protect and Defend; Analysis; Operate and Collect; Investigate. All classroom materials (in the book an ancillary) adhere to the NICE framework. Mirrors classes set up by the National Initiative for Cybersecurity Education (NICE) Adopts the Competency-Based Education (CBE) method of teaching, used by universities, corporations, and in government training Includes content and ancillaries that provide skill-based instruction on compliance laws, information security standards, risk response and recovery, and more

ISUW 2020 Walter de Gruyter GmbH & Co KG

Here is a state of art examination on exact and approximate algorithms for a number of important NP-hard problems in the field of integer linear programming, which the authors refer to as ``knapsack.'' Includes not only the classical knapsack problems such as binary, bounded, unbounded or binary multiple, but also less familiar problems such as subset-sum and change-making. Well known problems that are not usually classified in the knapsack area, including generalized assignment and bin packing, are also covered. The text fully develops an algorithmic approach without losing mathematical rigor.

2012 4th International Conference on Cyber Conflict (CYCON 2012) John Wiley & Sons

The Nonprofit Risk Book guides you through the process of finding, managing and mitigating risks that sap your nonprofit organization's time, finances, and resources. The book will lead you through a systematic process of evaluating what you know best: your organization and its operations. You will learn how to build a list of risks and evaluate each one for its likelihood and impact. After assigning a priority to each risk based on its severity and determining the resources needed to address it, you will be able to create a risk register. From this, you will be able to plan mitigation actions to address each risk and set dates for mitigation plan review and completion. Learn how to use the tools nonprofit leaders need to manage risk in programs and other operations.

A Guide to Integrated Cyber-Physical Protection of Modern Critical Infrastructures Springer Nature

“Bruce Schneier’s amazing book is the best overview of privacy and security ever written.”—Clay Shirky “Bruce Schneier’s amazing book is the best overview of privacy and security ever written.”—Clay Shirky Your cell phone provider tracks your location and knows who’s with you. Your online and in-store purchasing patterns are recorded, and reveal if you're unemployed, sick, or pregnant. Your e-mails and texts expose your intimate and casual friends. Google knows what you’re thinking because it saves your private searches. Facebook can determine your sexual orientation without you ever mentioning it. The powers that surveil us do more than simply store this information. Corporations use surveillance to manipulate not only the news articles and advertisements we each see, but also the prices we’re offered. Governments use surveillance to discriminate, censor, chill free speech, and put people in danger worldwide. And both sides share this information with each other or, even worse, lose it to cybercriminals in huge data breaches. Much of this is voluntary: we cooperate with corporate surveillance because it promises us convenience, and we submit to government surveillance because it promises us protection. The result is a mass surveillance society of our own making. But have we given up more than we’ve gained? In Data and Goliath, security expert Bruce Schneier offers another path, one that values both security and privacy. He brings his bestseller up-to-date with a new preface covering the latest developments, and then shows us exactly what we can do to reform government surveillance programs, shake up surveillance-based business models, and protect our individual privacy. You'll never look at your phone, your computer, your credit cards, or even your car in the same way again.

The Global Smartphone Packt Publishing Ltd

The book, in addition to the cyber threats and technology, processes cyber security from many sides as a social phenomenon and how the implementation of the cyber security strategy is carried out. The book gives a profound idea of the most spoken phenomenon of this time. The book is suitable for a wide-ranging audience from graduate to professionals/practitioners and researchers. Relevant disciplines for the book are Telecommunications / Network security, Applied mathematics / Data analysis, Mobile systems / Security, Engineering / Security of critical infrastructure and Military science / Security.

Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World Createspace Independent Publishing Platform

This book is open access under a CC BY 4.0 license. This book summarizes work being pursued in the context of the CIPRNet (Critical Infrastructure Preparedness and Resilience Research Network) research project, co-funded by the European Union under the Seventh Framework Programme (FP7). The project is intended to provide concrete and on-going support to the Critical Infrastructure Protection (CIP) research communities, enhancing their preparedness for CI-related emergencies, while also providing expertise and technologies for other stakeholders to promote their understanding and mitigation of the consequences of CI disruptions, leading to enhanced resilience. The book collects the tutorial material developed by the authors for several courses on the modelling, simulation and analysis of CIs, representing extensive and integrated CIP expertise. It will help CI stakeholders, CI operators and civil protection authorities understand the complex system of CIs, and help them adapt to these changes and threats in order to be as prepared as possible for mitigating emergencies and crises affecting or arising from CIs.

Resilience and Risk John Wiley & Sons Incorporated

The availability and security of many

services we rely upon including water treatment, electricity, healthcare, transportation, and financial transactions are routinely put at risk by cyber threats. The Handbook of SCADA/Control Systems Security is a fundamental outline of security concepts, methodologies, and relevant information pertaining to the

Mastering the Fundamentals using the NIST Cybersecurity Framework Walter de Gruyter GmbH & Co KG

This volume addresses the challenges associated with methodology and application of risk and resilience science and practice to address emerging threats in environmental, cyber, infrastructure and other domains. The book utilizes the collective expertise of scholars and experts in industry, government and academia in the new and emerging field of resilience in order to provide a more comprehensive and universal understanding of how resilience methodology can be applied in various disciplines and applications. This book advocates for a systems-driven view of resilience in applications ranging from cyber security to ecology to social action, and addresses resilience-based management in infrastructure, cyber, social domains and methodology and tools. Risk and Resilience has been written to open up a transparent dialog on resilience management for scientists and practitioners in all relevant academic disciplines and can be used as supplement in teaching risk assessment and management courses.

Cyber Crime Investigator's Field Guide, Second Edition Springer

Cybersecurity and Privacy in Cyber-Physical Systems collects and reports on recent high-quality research that addresses different problems related to cybersecurity and privacy in cyber-physical systems (CPSs). It Presents high-quality contributions addressing related theoretical and practical aspects Improves the reader’s awareness of cybersecurity and privacy in CPSs Analyzes and presents the state of the art of CPSs, cybersecurity, and related technologies and methodologies Highlights and discusses recent developments and emerging trends in cybersecurity and privacy in CPSs Proposes new models, practical solutions, and technological advances related to cybersecurity and privacy in CPSs Discusses new cybersecurity and privacy models, prototypes, and protocols for CPSs This comprehensive book promotes high-quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security. Cybersecurity and Privacy in Cyber-Physical Systems is ideally suited for policymakers, industrial engineers, researchers, academics, and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in CPSs. They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research. Readers will also have an overview of CPS cybersecurity and privacy design.

Bridging the Gaps Between Security Professionals, Law Enforcement, and Prosecutors Elsevier

In today’s digital age, online and mobile advertising are of growing importance, with advertising no longer bound to the traditional media industry. Although the advertising industry still has broader access to the different measures and channels, users and consumers today have more possibilities topublish, get informed or communicate – to “co-create” –, and toreach a bigger audience. There is a good chance thus that users and consumers are better informed about the objectives and persuasive tricks of the advertising industry than ever before. At the same time, advertisers can inform about products and services without the limitations of time and place faced by traditional mass media. But will there really be a time when advertisers and consumers have equal power, or does tracking users online and offline lead to a situation where advertisers have more information about the consumers than ever before? The volume discusses these questionsand related issues.

Meeting the Visitor John Wiley & Sons Understand malware analysis and its practical implementation Key Features Explore the key concepts of malware analysis and memory forensics using real-world examples Learn the art of detecting, analyzing, and investigating malware threats Understand adversary tactics and techniques Book Description Malware analysis and memory forensics are powerful analysis and investigation techniques used in reverse engineering, digital forensics, and incident response. With adversaries becoming sophisticated and carrying out advanced malware attacks on critical infrastructures, data centers, and private and public organizations, detecting, responding to, and investigating such intrusions is critical to information security professionals. Malware analysis and memory forensics have become must-have skills to fight advanced malware, targeted attacks, and security breaches. This book teaches you the concepts, techniques, and tools to understand the behavior and characteristics of malware through malware analysis. It also teaches you techniques to investigate and hunt malware using memory forensics. This book introduces you to the basics of malware analysis, and then gradually progresses into the more advanced concepts of code analysis and memory forensics. It uses real-world malware samples, infected memory images, and visual diagrams to help you gain a better understanding of the subject and to equip you with the skills required to analyze, investigate, and respond to malware-related incidents. What you will learn Create a safe and isolated lab environment for malware analysis Extract the metadata associated with malware Determine malware's interaction with the system Perform code analysis using IDA Pro and x64dbg Reverse-engineer various malware functionalities Reverse engineer and decode common encoding/encryption algorithms Reverse-engineer malware code injection and hooking techniques Investigate and hunt malware using memory forensics Who this book is for This book is for incident responders, cyber-security investigators, system administrators, malware analyst, forensic practitioners, student, or curious security professionals interested in learning malware analysis and memory forensics. Knowledge of programming languages such as C and Python is helpful but is not mandatory. If you have written few lines of code and have a basic understanding of programming concepts, you’ll be able to get most out of this book.

Beyond a youth technology Purdue University Press

This book focuses on the vulnerabilities of state and local services to cyber-threats and suggests possible protective action that might be taken against such threats. Cyber-threats to U.S. critical infrastructure are of growing concern to policymakers, managers and consumers. Information and communications technology (ICT) is ubiquitous and many ICT devices and other components are interdependent; therefore, disruption of one component may have a negative, cascading effect on others. Cyber-attacks might include denial of service, theft or manipulation of data. Damage to critical infrastructure through a cyber-based attack could have a significant impact on the national security, the economy, and the livelihood and safety of many individual citizens. Traditionally cyber security has generally been viewed as being focused on higher level threats such as those against the internet or the Federal government. Little attention has been paid to cyber-security at the state and local level. However, these governmental units play a critical role in providing services to local residents and consequently are highly vulnerable to cyber-threats. The failure of these services, such as waste water collection and water supply, transportation, public safety, utility services, and communication services, would pose a great threat to the public. Featuring contributions from leading experts in the field, this volume is intended for state and local government officials and managers, state and Federal officials, academics, and public policy specialists.