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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.

Enhance your organization's secure posture by improving your attack and defense strategies Key Features Gain a clear understanding of the attack methods, and patterns to recognize abnormal behavior within your organization with Blue Team tactics. Learn to unique techniques to gather exploitation intelligence, identify risk and demonstrate impact with Red Team and Blue Team strategies. A practical guide that will give you hands-on experience to mitigate risks and prevent attackers from infiltrating your system. Book Description The book will start talking about the security posture before moving to Red Team tactics, where you will learn the basic syntax for the Windows and Linux tools that are commonly used to perform the necessary operations. You will also gain hands-on experience of using new Red Team techniques with powerful tools such as python and PowerShell, which will enable you to discover vulnerabilities in your system and how to exploit them. Moving on, you will learn how a system is usually compromised by adversaries, and how they hack user's identity, and the various tools used by the Red Team to find vulnerabilities in a system. In the next section, you will learn about the defense strategies followed by the Blue Team to enhance the overall security of a system. You will also learn about an in-depth strategy to ensure that there are security controls in each network layer, and how you can carry out the recovery process of a compromised system. Finally, you will learn how to create a vulnerability management strategy and the different techniques for manual log analysis. By the end of this book, you will be well-versed with Red Team and Blue Team techniques and will have learned the techniques used nowadays to attack and defend systems. What you will learn Learn the importance of having a solid foundation for your security posture Understand the attack strategy using cyber security kill chain Learn how to enhance your defense strategy by improving your security policies, hardening your network, implementing active sensors, and leveraging threat intelligence Learn how to perform an incident investigation Get an in-depth understanding of the recovery process Understand continuous security monitoring and how to implement a vulnerability management strategy Learn how to perform log analysis to identify suspicious activities Who this book is for This book aims at IT professional who want to venture the IT security domain. IT pentester, Security consultants, and ethical hackers will also find this course useful. Prior knowledge of penetration testing would be beneficial.

This third edition of the all time classic computer security book provides an overview of all types of computer security from centralized systems to distributed networks. The book has been updated to make the most current information in the field available and accessible to today's professionals.

The need for information security management has never been greater. With constantly changing technology, external intrusions, and internal thefts of data, information security officers face threats at every turn. The Information Security Management Handbook on CD-ROM, 2006 Edition is now available. Containing the complete contents of the Information Security Management Handbook, this is a resource that is portable, linked and searchable by keyword. In addition to an electronic version of the most comprehensive resource for information security management, this CD-ROM contains an extra volume's worth of information that is not found anywhere else, including chapters from other security and networking books that have never appeared in the print editions. Exportable text and hard copies are available at the click of a mouse. The Handbook's numerous authors present the ten domains of the Information Security Common Body of Knowledge (CBK) ®. The CD-ROM serves as an everyday reference for information security practitioners and an important tool for any one preparing for the Certified Information System Security Professional (CISSP) ® examination. New content to this Edition: Sensitive/Critical Data Access Controls Role-Based Access Control Smartcards A Guide to Evaluating Tokens Identity Management-Benefits and Challenges An Examination of Firewall Architectures The Five "W's" and Designing a Secure Identity Based Self-Defending Network Maintaining Network Security-Availability via Intelligent Agents PBX Firewalls: Closing the Back Door Voice over WLAN Spam Wars: How to Deal with Junk E-Mail Auditing the Telephony System: Defenses against Communications Security Breaches and Toll Fraud The "Controls" Matrix Information Security Governance

"This book presents the latest research ideas and topics on databases and software development. It provides a representation of top notch research in all areas of database and information systems development"--Provided by publisher.

A collection of popular essays from security guru Bruce Schneier In his latest collection of essays, security expert Bruce Schneier tackles a range of cybersecurity, privacy, and real-world security issues ripped from the headlines. Essays cover the ever-expanding role of technology in national security, war, transportation, the Internet of Things, elections, and more. Throughout, he challenges the status quo with a call for leaders, voters, and consumers to make better security and privacy decisions and investments. Bruce's writing has previously appeared in some of the world's best-known and most-respected publications, including The Atlantic, the Wall Street Journal, CNN, the New York Times, the Washington Post, Wired, and many others. And now you can enjoy his essays in one place—at your own speed and convenience. • Timely security and privacy topics • The impact of security and privacy on our world • Perfect for fans of Bruce's blog and newsletter • Lower price than his previous essay collections The essays are written for anyone who cares about the future and implications of security and privacy for society.

Readers discover a managerially-focused overview of information security with a thorough treatment of how to most effectively administer it with MANAGEMENT OF INFORMATION SECURITY, 5E. Information throughout helps readers become information security management practitioners able to secure systems and networks in a world where continuously emerging threats, ever-present attacks, and the success of criminals illustrate the weaknesses in current information technologies. Current and future professional managers complete this book with the exceptional blend of skills and experiences to develop and manage the more secure computing environments that today's organizations need. This edition offers a tightened focus on key executive and managerial aspects of information security while still emphasizing the important foundational material to reinforce key concepts. Updated content reflects the most recent developments in the field, including NIST, ISO, and security governance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

Welcome to the cybersecurity (also called information security or InfoSec) field! If you are interested in a career in cybersecurity, you've come to the right book. So what exactly do these people do on the job, day in and day out? What kind of skills and educational background do you need to succeed in this field? How much can you expect to make, and what are the pros and cons of these various professions? Is this even the right career path for you? How do you avoid burnout and deal with stress? This book can help you answer these questions and more. Cybersecurity and Information Security Analysts: A Practical Career Guide, which includes interviews with professionals in the field, covers the following areas of this field that have proven to be stable, lucrative, and growing professions. Security Analysts/Engineers Security Architects Security Administrators Security Software Developers Cryptographers/Cryptologists/Cryptanalysts

This collection of papers, articles, and monographs details the ethical landscape as it exists for the distinct areas of Internet and network security, including moral justification of hacker attacks, the ethics behind the freedom of information which contributes to hacking, and the role of the law in policing cyberspace.

This open access book provides the first comprehensive collection of papers that provide an integrative view on cybersecurity. It discusses theories, problems and solutions on the relevant ethical issues involved. This work is sorely needed in a world where cybersecurity has become indispensable to protect trust and confidence in the digital infrastructure whilst respecting fundamental values like equality, fairness, freedom, or privacy. The book has a strong practical focus as it includes case studies outlining ethical issues in cybersecurity and presenting guidelines and other measures to tackle those issues. It is thus not only relevant for academics but also for practitioners in cybersecurity such as providers of security software, governmental CERTs or Chief Security Officers in companies.

Comprehensive and accessible, Elementary Information Security covers the entire range of topics required for US government courseware certification NSTISSI 4013 and urges students analyze a variety of security problems while gaining experience with basic tools of the trade. Written for the one-term undergraduate course, the text emphasises both the technical and non-technical aspects of information security and uses practical examples and real-world assessment tools. Early chapters in the text discuss individual computers and small LANS, while later chapters deal with distributed site security and the Internet. Cryptographic topics follow the same progression, starting on a single computer and evolving to Internet-level connectivity. Mathematical concepts throughout the text are defined and tutorials with mathematical tools are provided to ensure students grasp the information at hand. Rather than emphasizing memorization, this text challenges students to learn how to analyze a variety of security problems and gain experience with the basic tools of this growing trade.Key Features:-Covers all topics required by the US government curriculum standard NSTISSI 4013.- Unlike other texts on the topic, the author goes beyond defining the math concepts and provides students with tutorials and practice with mathematical tools, making the text appropriate for a broad range of readers.- Problem Definitions describe a practical situation that includes a security dilemma.- Technology Introductions provide a practical explanation of security technology to be used in the specific chapters- Implementation Examples show the technology being used to enforce the security policy at hand- Residual Risks describe the limitations to the technology and illustrate various tasks against it.- Each chapter includes worked examples of techniques students will need to be successful in the course. For instance, there will be numerous examples of how to calculate the number of attempts needed to crack secret information in particular formats; PINs, passwords and encryption keys.

This book is a collection of essays on service and advanced technology written by the author and are based on peer-reviewed papers presented at technical conferences. Service and advanced technology is the cornerstone of modern business and management, and future developments in the various disciplines will be based on concepts presented herein. The essays can be easily be read by persons in all areas of business and management. Some of the papers have been modified to better suit a general audience, and others have been simply improved. Titles and formatting have been adjusted in some cases. Some of the reasons for studying service and advanced technology are that the subjects serve as the bases of our everyday existence. We use service and technology on a daily basis, yet we know very little about the underlying concepts. We have no introduction, no principles of best behavior, and no theories. It is time for a change. The reader is expected to read the essays individually and in any appropriate order. Accordingly, some of the introductory material is repeated. This fact is just part of the notion of presenting topics on a needed basis. The table of contents has been designed to better serve the reader. An entry gives an abstract to the respective essay, and serves

an aid to the reader in selecting an essay of interest. The abstract entries serve to give a quick outline of the subject matter. The essays give a view of several areas of interest to the modern reader and cover the following subjects: Service concepts, Service management, Service technology, Hospitality, Cybersecurity, Service economics, Ransomware, Applied cybersecurity, Cybersecurity policy, Watchlist concepts, Identity, The ontology of identity, Service systems ontology, and Terrorism. Harry Katzan is a professor, author, and consultant, and enjoys outdoor activities.

Updated annually, the Information Security Management Handbook, Sixth Edition, Volume 7 is the most comprehensive and up-to-date reference available on information security and assurance. Bringing together the knowledge, skills, techniques, and tools required of IT security professionals, it facilitates the up-to-date understanding required to stay one step ahead of evolving threats, standards, and regulations. Reporting on the latest developments in information security and recent changes to the (ISC)2® CISSP Common Body of Knowledge (CBK®), this volume features 27 new chapters on topics such as BYOD, IT consumerization, smart grids, security, and privacy. Covers the fundamental knowledge, skills, techniques, and tools required by IT security professionals Updates its bestselling predecessors with new developments in information security and the (ISC)2® CISSP® CBK® Provides valuable insights from leaders in the field on the theory and practice of computer security technology Facilitates the comprehensive and up-to-date understanding you need to stay fully informed The ubiquitous nature of computers and networks will always provide the opportunity and means to do harm. This edition updates its popular predecessors with the information you need to address the vulnerabilities created by recent innovations such as cloud computing, mobile banking, digital wallets, and near-field communications. This handbook is also available on CD.

This book presents high-quality research papers presented at the Second International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2021) held during June 16–17, 2021, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content addresses challenges of cyber security.

The Information Security Management Handbook continues its tradition of consistently communicating the fundamental concepts of security needed to be a true CISSP. In response to new developments, Volume 4 supplements the previous volumes with new information covering topics such as wireless, HIPAA, the latest hacker attacks and defenses, intrusion

Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies, standards, and best practices. Provides recent, comprehensive coverage of all issues related to information security and ethics, as well as the opportunities, future challenges, and emerging trends related to this subject.

Presenting invaluable advice from the world?s most famous computer security expert, this intensely readable collection features some of the most insightful and informative coverage of the strengths and weaknesses of computer security and the price people pay -- figuratively and literally -- when security fails. Discussing the issues surrounding things such as airplanes, passports, voting machines, ID cards, cameras, passwords, Internet banking, sporting events, computers, and castles, this book is a must-read for anyone who values security at any level -- business, technical, or personal.

Discover the latest trends, developments and technology in information security today with Whitman/Mattord's market-leading PRINCIPLES OF INFORMATION SECURITY, 7th Edition. Designed specifically to meet the needs of those studying information systems, this edition's balanced focus addresses all aspects of information security, rather than simply offering a technical control perspective. This overview explores important terms and examines what is needed to manage an effective information security program. A new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management toolsets and digital forensics. Coverage of the most recent policies and guidelines that correspond to federal and international standards further prepare you for success both in information systems and as a business decision-maker. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"Published in the United Kingdom in 2013 by C. Hurst & Co. (Publishers) Ltd"--Title page verso.

In the information age, it is important to investigate information systems in relationship to society, in general, and various user groups, in particular. Since information technology requires interactions between people and their social structure, research in information system usage behavior needs to be based on a deep understanding of the interrelation between the technology and the social environment of the user. This dissertation adopts a socio-technical approach in order to better explore the role of information technology in the important research issues of online privacy and information assurance. This dissertation consists of three essays. The first essay investigates factors that affect the career decisions of cyber security scholars. In the recent past, cyber security has become a critical area in the Information Technology (IT) field, and the demand for such professionals has been increasing tremendously.^However, there is a shortage of qualified personnel, which is a factor that contributes greatly to the society's vulnerability to various cyber threats. To date, there is no academic extent research regarding the cyber security workforce and their career decisions. Based on the theories of planned behavior and self-efficacy, our study articulates a model to explain career selection behavior in the cyber security field. To provide validity for the proposed conceptual framework, we undertook a comprehensive empirical investigation of Scholarship for Service (SFS) Scholars who are funded by the National Science Foundation and who are studying information assurance and computer security in universities. The results of this research have implications for retaining a qualified workforce in the computer and information security fields. The second essay explores internet users' online privacy protection behavior.^Information security and privacy on the Internet are critical issues in our society. In this research, factors that influence internet users' private information sharing behavior were examined. Based on a survey of two of the most vulnerable groups on the web, 285 pre- and early teens, this essay provides a research framework that explains in the private information sharing behavior of Internet users. According to our study results, Internet users' information privacy behaviors are affected by two significant factors: the perceived importance of information privacy and information privacy self-efficacy. It was also found that users' belief in the value of online information privacy and information privacy protection behavior varies by gender. Our research findings indicate that educational opportunities regarding Internet privacy and computer security as well as concerns from other reference groups (e.g.^peers, teachers, and parents) play an important role in positively affecting Internet users' protective behavior toward online privacy. The third essay investigates knowledge sharing in the context of blogs. In the information age, web 2.0 technology is receiving growing attention as an innovative way to share information and knowledge. This study articulates a model, which enables the understanding of bloggers' knowledge sharing practices. It identifies and describes the factors affecting their knowledge sharing behavior in online social networks. The analysis of 446 surveys indicates that bloggers' trust, strength of social ties and reciprocity all have a positive impact on their knowledge sharing practices. Their online information privacy concerns, on the other hand, have a negative impact on their knowledge sharing behavior. More importantly, the amount of impact for each factor in knowledge sharing behavior varies by gender .^The research results contribute toward an understanding of the successful deployment of web 2.0 technologies as knowledge management systems and provide useful insights into understanding bloggers' knowledge sharing practices in online communities.

Why do nations break into one another's most important computer networks? There is an obvious answer: to steal valuable information or to attack. But this isn't the full story. This book draws on often-overlooked documents leaked by Edward Snowden, real-world case studies of cyber operations, and policymaker perspectives to show that intruding into other countries' networks has enormous defensive value as well. Two nations, neither of which seeks to harm the other but neither of which trusts the other, will often find it prudent to launch intrusions. This general problem, in which a nation's means of securing itself threatens the security of others and risks escalating tension, is a bedrock concept in international relations and is called the 'security dilemma'. This book shows not only that the security dilemma applies to cyber operations, but also that the particular characteristics of the digital domain mean that the effects are deeply pronounced. The cybersecurity dilemma is both a vital concern of modern statecraft and a means of accessibly understanding the essential components of cyber operations.

Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the CISSP Common Body of Knowledge domains and has been updated yearly. Each annual update, the latest is Volume 6, reflects the changes to the CBK in response to new laws and evolving technology.

This handbook covers the ten domains of the Information Security Common Body of Knowledge. It is designed to empower the security professional and the chief information officer with information such that they can do their duty, protect the information assets of their organizations.

Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific recommendations are provided for industry and for government agencies engaged in computer security activities. The volume also outlines problems and opportunities in computer security research, recommends ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer countermeasures based on speculation of what experts think computer attackers may do next, why the technology community has failed to respond to the need for enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the right of privacy.

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.

Cybercrime affects over 1 million people worldwide a day, and cyber attacks on public institutions and businesses are increasing. This book interrogates the European Union's evolving cybersecurity policies and strategy and argues that while progress is being made, much remains to be done to ensure a secure and resilient cyberspace in the future.

Information Security is usually achieved through a mix of technical, organizational and legal measures. These may include the application of cryptography, the hierarchical modeling of organizations in order to assure confidentiality, or the distribution of accountability and responsibility by law, among interested parties. The history of Information Security reaches back to ancient times and starts with the emergence of bureaucracy in administration and warfare. Some aspects, such as the interception of encrypted messages during World War II, have attracted huge attention, whereas other aspects have remained largely uncovered. There has never been any effort to write a comprehensive history. This is most unfortunate, because Information Security should be perceived as a set of communicating vessels, where technical innovations can make existing legal or organisational frame-works obsolete and a breakdown of political authority may cause an exclusive reliance on technical means. This book is intended as a first field-survey. It consists of twenty-eight contributions, written by experts in such diverse fields as computer science, law, or history and political science, dealing with episodes, organisations and technical developments that may considered to be exemplary or have played a key role in the development of this field. These include: the emergence of cryptology as a discipline during the Renaissance, the Black Chambers in 18th century Europe, the breaking of German military codes during World War II, the histories of the NSA and its Soviet counterparts and contemporary cryptology. Other subjects are: computer security standards, viruses and worms on the Internet, computer transparency and free software, computer crime, export regulations for encryption software and the privacy debate. - Interdisciplinary coverage of the history Information Security - Written by top experts in law, history, computer and information science - First comprehensive work in Information Security

This book gathers the latest research results of scientists from different countries who have made essential contributions to the novel analysis of cyber security. Addressing open problems in the cyber world, the book consists of two parts. Part I focuses on cyber operations as a new tool in global security policy, while Part II focuses on new cyber security technologies when building cyber power capabilities. The topics discussed include strategic perspectives on cyber security and cyber warfare, cyber security implementation, strategic communication, trusted computing, password cracking, systems security and network security among others.

We depend on information and information technology (IT) to make many of our day-to-day tasks easier and more convenient. Computers play key roles in transportation, health care, banking, and energy. Businesses use IT for payroll and accounting, inventory and sales, and research and development. Modern military forces use weapons that are increasingly coordinated through computer-based networks. Cybersecurity is vital to protecting all of these functions. Cyberspace is vulnerable to a broad spectrum of hackers, criminals, terrorists, and state actors. Working in cyberspace, these malevolent actors can steal money, intellectual property, or classified information; impersonate law-abiding parties for their own purposes; damage important data; or deny the availability of normally accessible services. Cybersecurity issues arise because of three factors taken together - the presence of malevolent actors in cyberspace, societal reliance on IT for many important functions, and the presence of vulnerabilities in IT systems. What steps can policy makers take to protect our government, businesses, and the public from those would take advantage of system vulnerabilities? At the Nexus of Cybersecurity and Public Policy offers a wealth of information on practical mea-

sures, technical and nontechnical challenges, and potential policy responses. According to this report, cybersecurity is a never-ending battle; threats will evolve as adversaries adopt new tools and techniques to compromise security. Cybersecurity is therefore an ongoing process that needs to evolve as new threats are identified. At the Nexus of Cybersecurity and Public Policy is a call for action to make cybersecurity a public safety priority. For a number of years, the cybersecurity issue has received increasing public attention; however, most policy focus has been on the short-term costs of improving systems. In its explanation of the fundamentals of cybersecurity and the discussion of potential policy responses, this book will be a resource for policy makers, cybersecurity and IT professionals, and anyone who wants to understand threats to cyberspace.

This book constitutes the revised selected papers from the First International Conference on Computing, Analytics and Networks, ICAN 2017, held in Rajpura, India, in October 2017. The 20 revised full papers presented in this volume were carefully reviewed and selected from 56 submissions. They are organized in topical sections on Mobile Cloud Computing; Big Data Analytics; Secure Networks. Five papers in this book are available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. For further details, please see the copyright page.

Motivation; Understanding and working security issues; Database security.

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.

"Information security breaches represent a growing but not unforeseen pandemic. Indeed, the breaches have existed as long as companies have been known. As employees generated, processed, and stored confidential information, breaches occurred. With the storage of private records in a digitized format, security breaches have represented an increasing concern for organizations. However, it was only in the early 2000s that the public started to gain adequate awareness of data breaches and their potential impacts. Despite the ever-growing awareness, statistics show that breaches have become more frequent and impactful. Unfortunately, projections of data breaches indicate that the numbers will continue to increase to even higher levels in the future. The disastrous impacts of breaches on individuals, organizations, and even society, have triggered substantial efforts in both academia and industry to not only enhance the protection of IS assets against security breaches but also guide effective recovery when the breaches take place. This dissertation proposes three essays that aim at deepening the understanding of both the recovery and the protection phases of information security management in organizations.Essay one uses evidence from the extant literature to address post-breach recovery in organizations. In this work, we first developed a typological theory to delineate the differences that exist among various breach cases. The proposed typological theory is based on the key breach case dimensions that shape the impacted parties' emotional and cognitive reactions following a breach. Second, we developed a multidimensional framework for objectively defining and configuring remedy-profile alternatives that can be adopted in response to different breach cases. Third, we showed the intricacies of remedy selection in post-breach situations and put forth propositions regarding the most effective remedy profiles for different archetypes of breach cases. In this step, we also provided an overarching and generalizable conceptualization of effectiveness in the context of post-breach remedies.Essay two uses a grounded theory approach to shed light on the role that IT staff, a critical organizational party in the context of InfoSec, in influencing business employees' ISP compliance. In this study, we leveraged primary interview data that were complemented by secondary data from practitioner articles. The study adopted an interpersonal-influence lens to study the influence of IT staff on employees compliance. The study results revealed four specific compliance-gaining tactics that can be effectively used by IT staff to influence employees' compliance with ISPs. In addition, the study revealed four contextual factors that play important roles in the efficacy of the four abovementioned compliance-gaining tactics. The study concludes by proposing three major avenues for future research targeted at better understanding the role of IT staff in organizational information security.Essay three is an inductive qualitative inquiry that addresses the breach prevention phase of security management. This work focuses on the socio-technical nature of ISP compliance and provides a finer-grained understanding of the critical elements that influence users' ISP compliance in organizations. In this research, we investigated 1) the key sources of technological/social influence and their critical attributes, 2) the key targets of technological/social influence and their critical attributes, 3) the most prevalent technological/social influence mechanisms, 4) the important contextual factors and 5) the different interactions between technological and social elements that influence ISP compliance.All in all, the three essays provide several contributions to research and practice. They also create a fertile grounding for future studies in the burgeoning field of information security"--

An Economist Book of the Year Every minute of every day, our data is harvested and exploited... It is time to pull the plug on the surveillance economy. Governments and hundreds of corporations are spying on you, and everyone you know. They're not just selling your data. They're selling the power to influence you and decide for you. Even when you've explicitly asked them not to. Reclaiming privacy is the only way we can regain control of our lives and our societies. These governments and corporations have too much power, and their power stems from us--from our data. Privacy is as collective as it is personal, and it's time to take back control. Privacy Is Power tells you how to do exactly that. It calls for the end of the data economy and proposes concrete measures to bring that end about, offering practical solutions, both for policymakers and ordinary citizens.

Starting with the inception of an education program and progressing through its development, implementation, delivery, and evaluation, Managing an Information Security and Privacy Awareness and Training Program, Second Edition provides authoritative coverage of nearly everything needed to create an effective training program that is compliant with applicable laws, regulations, and policies. Written by Rebecca Herold, a well-respected information security and privacy expert named one of the "Best Privacy Advisers in the World" multiple times by Computerworld magazine as well as a "Top 13 Influencer in IT Security" by IT Security Magazine, the text supplies a proven framework for creating an awareness and training program. It also: Lists the laws and associated excerpts of the specific passages that require training and awareness Contains a plethora of forms, examples, and samples in the book’s 22 appendices Highlights common mistakes that many organizations make Directs readers to additional resources for more specialized information Includes 250 awareness activities ideas and 42 helpful tips for trainers Complete with case studies and examples from a range of businesses and industries, this all-in-one resource provides the holistic and practical understanding needed to identify and implement the training and awareness methods best suited to, and most effective for, your organization. Praise for: The first edition was outstanding. The new second edition is even better ... the definitive and indispensable guide for information security and privacy awareness and training professionals, worth every cent. As with the first edition, we recommend it unreservedly.. —NoticeBored.com

This book brings together papers that offer conceptual analyses, highlight issues, propose solutions, and discuss practices regarding privacy, data protection and enforcing rights in a changing world. It is one of the results of the 14th annual International Conference on Computers, Privacy and Data Protection (CPDP), which took place online in January 2021. The pandemic has produced deep and ongoing changes in how, when, why, and the media through which, we interact. Many of these changes correspond to new approaches in the collection and use of our data - new in terms of scale, form, and purpose. This raises difficult questions as to which rights we have, and should have, in relation to such novel forms of data processing, the degree to which these rights should be balanced against other poignant social interests, and how these rights should be enforced in light of the fluidity and uncertainty of circumstances. The book covers a range of topics, such as: digital sovereignty; art and algorithmic accountability; multistakeholderism in the Brazilian General Data Protection law; expectations of privacy and the European Court of Human Rights; the function of explanations; DPIAs and smart cities; and of course, EU data protection law and the pandemic – including chapters on scientific research and on the EU Digital COVID Certificate framework. This interdisciplinary book has been written at a time when the scale and impact of data processing on society – on individuals as well as on social systems – is becoming ever starker. It discusses open issues as well as daring and prospective approaches and is an insightful resource for readers with an interest in computers, privacy and data protection.