Data And Goliath The Hidden Battles To Collect Your Data And Control Your World

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Liars and Outliers Bruce Schneier 2012-01-27 In today's hyper-connected society, understanding the mechanisms of trust is crucial. Issues of trust are critical to solving problems as diverse as corporate responsibility, global warming, and the political system. In this insightful and entertaining book, Schneier weaves together ideas from across the social and biological sciences to explain how society induces trust. He shows the unique role of trust in facilitating and stabilizing human society. He discusses why and how trust has evolved, why it works the way it does, and the ways the information society is changing everything.
Click Here to Kill Everybody: Security and Survival in a Hyper-connected World Bruce Schneier 2018-09-04 A world of "smart" devices means the Internet can kill people. We need to act. Now. Everything is a computer. Ovens are computers that make things hot; refrigerators are computers that keep things cold. These computers—from home

thermostats to chemical plants—are all online. The Internet, once a virtual abstraction, can now sense and touch the physical world. As we open our lives to this future, often called the Internet of Things, we are beginning to see its enormous potential in ideas like driverless cars, smart cities, and personal agents equipped with their own behavioral algorithms. But every knife cuts two ways. All computers can be hacked. And Internet-connected computers are the most vulnerable. Forget data theft: cutting-edge digital attackers can now crash your car, your pacemaker, and the nation’s power grid. In Click Here to Kill Everybody, renowned expert and best-selling author Bruce Schneier examines the hidden risks of this new reality. After exploring the full implications of a world populated by hyperconnected devices, Schneier reveals the hidden web of technical, political, and market forces that underpin the pervasive insecurities of today. He then offers common-sense choices for companies, governments, and individuals that can allow us to enjoy the benefits of this omnipotent age without falling prey to its vulnerabilities. From principles for a more resilient Internet of Things, to a recipe for sane government regulation and oversight, to a better way to understand a truly new environment, Schneier’s vision is required reading for anyone invested in human flourishing.

Small Data Martin Lindstrom Company 2016-03-10 The New York Times Bestseller named one of the "Most Important Books of 2016" by Inc, and a Forbes 2016 "Must Read Business Book" 'If you love 'Bones' and 'CSI', this book is your kind of candy' Paco Underhill, author of Why We Buy 'Martin's best book to date. A personal, intuitive, powerful way to look at making an impact with your work' Seth Godin, author of Purple Cow Martin Lindstrom, one of Time Magazine's 100 Most Influential People in The World and a modern-day Sherlock Holmes, harnesses the power of "small data" in his quest to discover the next big thing. In an era where many believe Big Data has rendered human perception and observation 'old-school' or passé, Martin Lindstrom shows that mining and matching technological data with up-close psychological insight creates the ultimate snapshot of who we really are and what we really want. He works like a modern-day Sherlock Holmes, accumulating small clues - the progressively weaker handshakes of Millenials, a notable global decrease in the use of facial powder, a change in how younger consumers approach eating ice cream cones - to help solve a stunningly diverse array of challenges. In Switzerland, a stuffed teddy bear in a teenage girl's bedroom helped revolutionise 1,000 stores - spread across twenty countries - for one of Europe's largest fashion retailers. In Dubai, a distinctive bracelet strung with pearls helped Jenny Craig offset its declining membership in the United States and increase loyalty by 159% in only one

year. In China, the look of a car dashboard led to the design of the iRobot, or Roomba, floor cleaner - a great success story. SMALL DATA combines armchair travel with forensic psychology in an interlocking series of international clue-gathering detective stories. It shows Lindstrom using his proprietary CLUES Framework - where big data is merely one part of the overall puzzle - to get radically close to consumers and come up with the counter-intuitive insights that have in some cases helped transform entire industries. SMALL DATA presents a rare behind-the-scenes look at what it takes to create global brands, and reveals surprising and counter-intuitive truths about what connects us all as humans.

Secrets and Lies Bruce Schneier 2015-03-23 This anniversary edition which has stood the test of time as a runaway best-seller provides a practical, straight-forward guide to achieving security throughout computer networks. No theory, no math, no fiction of what should be working but isn't, just the facts. Known as the master of cryptography, Schneier uses his extensive field experience with his own clients to dispel the myths that often mislead IT managers as they try to build secure systems. A much-touted section: Schneier's tutorial on just what cryptography (a subset of computer security) can and cannot do for them, has received far-reaching praise from both the technical and business community. Praise for Secrets and Lies "This is a business issue, not a technical one, and executives can no longer leave such decisions to techies. That's why Secrets and Lies belongs in every manager's library."-Business Week "Startlingly lively....a jewel box of little surprises you can actually use."-Fortune "Secrets is a comprehensive, well-written work on a topic few business leaders can afford to neglect."-Business 2.0 "Instead of talking algorithms to geeky programmers, [Schneier] offers a primer in practical computer security aimed at those shopping, communicating or doing business online-almost everyone, in other words."-The Economist "Schneier...peppers the book with lively anecdotes and aphorisms, making it unusually accessible."-Los Angeles Times With a new and compelling Introduction by the author, this premium edition will become a keepsake for security enthusiasts of every stripe.

Urban Informatics Wenzhong Shi 2021-04-06 This open access book is the first to systematically introduce the principles of urban informatics and its application to every aspect of the city that involves its functioning, control, management, and future planning. It introduces new models and tools being developed to understand and implement these technologies that enable cities to function more efficiently – to become ‘smart’ and ‘sustainable’. The smart city has quickly emerged as computers have become ever smaller to the point where they can be

embedded into the very fabric of the city, as well as being central to new ways in which the population can communicate and act. When cities are wired in this way, they have the potential to become sentient and responsive, generating massive streams of ‘big’ data in real time as well as providing immense opportunities for extracting new forms of urban data through crowdsourcing. This book offers a comprehensive review of the methods that form the core of urban informatics from various kinds of urban remote sensing to new approaches to machine learning and statistical modelling. It provides a detailed technical introduction to the wide array of tools information scientists need to develop the key urban analytics that are fundamental to learning about the smart city, and it outlines ways in which these tools can be used to inform design and policy so that cities can become more efficient with a greater concern for environment and equity.

The Art of Invisibility Kevin Mitnick 2019-09-10 Real-world advice on how to be invisible online from "the FBI's most-wanted hacker" (Wired) Your every step online is being tracked and stored, and your identity easily stolen. Big companies and big governments want to know and exploit what you do, and privacy is a luxury few can afford or understand. In this explosive yet practical book, computer-security expert Kevin Mitnick uses true-life stories to show exactly what is happening without your knowledge, and teaches you "the art of invisibility": online and everyday tactics to protect you and your family, using easy step-by-step instructions. Reading this book, you will learn everything from password protection and smart Wi-Fi usage to advanced techniques designed to maximize your anonymity. Invisibility isn't just for superheroes--privacy is a power you deserve and need in the age of Big Brother and Big Data.

Tools and Weapons Brad Smith 2019-09-10 *THE INSTANT NEW YORK TIMES BESTSELLER AND WORLD ECONOMIC FORUM BOOK CLUB PICK* 'A clear, compelling guide to some of the most pressing debates in technology today.' Bill Gates, from the foreword 'The de facto ambassador for the technology industry at large.' The New York Times 'One of the few executives willing to speak openly about the industry's most vexing issues.' Sunday Times _____ Microsoft President Brad Smith operates by a simple core belief: when your technology changes the world, you bear a responsibility to help address the world you have helped create. This might seem uncontroversial, but it flies in the face of a tech sector long obsessed with rapid growth and sometimes on disruption as an end in itself. While sweeping digital transformation holds great promise, we have reached an inflection point. The world has turned information technology into both a powerful tool and a formidable weapon, and new

approaches are needed to manage an era defined by even more powerful inventions like artificial intelligence. Companies that create technology must accept greater responsibility for the future, and governments will need to regulate technology by moving faster and catching up with the pace of innovation. In Tools and Weapons, Brad Smith and Carol Ann Browne bring us a captivating narrative from the cockpit of one of the world's largest and most powerful tech companies as it finds itself in the middle of some of the thorniest emerging issues of our time. These are challenges that come with no pre-existing playbook, including privacy, cybercrime and cyberwar, social media, the moral conundrums of artificial intelligence, big tech's relationship to inequality, and the challenges for democracy, far and near. While in no way a self-glorifying "Microsoft memoir," the book pulls back the curtain remarkably wide onto some of the company's most crucial recent decision points as it strives to protect the hopes technology offers against the very real threats it also presents. There are huge ramifications for communities and countries, and Brad Smith provides a thoughtful and urgent contribution to that effort. From Microsoft's President and one of the tech industry's wisest thinkers, a frank and thoughtful reckoning with how to balance enormous promise and existential risk as the digitization of everything accelerates. _____ In Tools and Weapons, Brad Smith takes us behind the scenes on some of the biggest stories to hit the tech industry in the past decade and some of the biggest threats we face. From Edward Snowden's NSA leak to the NHS WannaCry ransomware attack, this book is essential reading to understand what's happening in the world around us. If you watched Inside Bill's Brain: Decoding Bill Gates on Netflix, you will find Tools and Weapons equally fascinating. 'This is a colourful and insightful insiders' view of how technology is both empowering us and threatening us. From privacy to cyberattacks, this timely book is a useful guide for how to navigate the digital future.' Walter Isaacson, bestselling author of Steve Jobs

Do the Work! Steven Pressfield 2014-10-28

Innovation and Its Enemies Calestous Juma 2016 New technologies may be heralded as life-changing innovations or feared as risks to moral values, human health, and environmental safety. Anxieties surrounding technology are often heightened by perceptions that their benefits will accrue to small sections of society while the risks are more widely distributed. Innovation and Its Enemies identifies the tension between the need for innovation and the pressure to maintain continuity, social order and stability as one of today's biggest policy challenges. It looks at a

number of historical examples, including coffee, electricity, margarine, farm.
Applied Cryptography Bruce Schneier 2015 From the world's most renowned security technologist, Bruce Schneier, this 20th Anniversary Edition is the most definitive reference on cryptography ever published and is the seminal work on cryptography. Cryptographic techniques have applications far beyond the obvious uses of encoding and decoding information. For developers who need to know about capabilities, such as digital signatures, that depend on cryptographic techniques, there's no better overview than Applied Cryptography, the definitive book on the subject. Bruce Schneier covers general classes of cryptographic protocols and then specific techniques, detailing the inner workings of real-world cryptographic algorithms including the Data Encryption Standard and RSA public-key cryptosystems. The book includes source-code listings and extensive advice on the practical aspects of cryptography implementation, such as the importance of generating truly random numbers and of keeping keys secure. ". . .the best introduction to cryptography I've ever seen. . . .The book the National Security Agency wanted never to be published. . . ." -Wired Magazine ". . .monumental . . . fascinating . . . comprehensive . . . the definitive work on cryptography for computer programmers . . ." -Dr. Dobb's Journal ". . .easily ranks as one of the most authoritative in its field." -PC Magazine The book details how programmers and electronic communications professionals can use cryptography-the technique of enciphering and deciphering messages-to maintain the privacy of computer data. It describes dozens of cryptography algorithms, gives practical advice on how to implement them into cryptographic software, and shows how they can be used to solve security problems. The book shows programmers who design computer applications, networks, and storage systems how they can build security into their software and systems. With a new Introduction by the author, this premium edition will be a keepsake for all those committed to computer and cyber security.
Cyber Privacy April Falcon Doss 2020-10-20 "Chilling, eye-opening, and timely, Cyber Privacy makes a strong case for the urgent need to reform the laws and policies that protect our personal data. If your reaction to that statement is to shrug your shoulders, think again. As April Falcon Doss expertly explains, data tracking is a real problem that affects every single one of us on a daily basis." —General Michael V. Hayden, USAF, Ret., former Director of CIA and NSA and former Principal Deputy Director of National Intelligence You're being tracked. Amazon, Google, Facebook, governments. No matter who we are or where we go, someone is collecting our data: to profile us, target us, assess us; to predict our behavior and analyze our attitudes; to influence the things we do and buy—even to

impact our vote. If this makes you uneasy, it should. We live in an era of unprecedented data aggregation, and it's never been more difficult to navigate the trade-offs between individual privacy, personal convenience, national security, and corporate profits. Technology is evolving quickly, while laws and policies are changing slowly. You shouldn't have to be a privacy expert to understand what happens to your data. April Falcon Doss, a privacy expert and former NSA and Senate lawyer, has seen this imbalance in action. She wants to empower individuals and see policy catch up. In Cyber Privacy, Doss demystifies the digital footprints we leave in our daily lives and reveals how our data is being used—sometimes against us—by the private sector, the government, and even our employers and schools. She explains the trends in data science, technology, and the law that impact our everyday privacy. She tackles big questions: how data aggregation undermines personal autonomy, how to measure what privacy is worth, and how society can benefit from big data while managing its risks and being clear-eyed about its cost. It's high time to rethink notions of privacy and what, if anything, limits the power of those who are constantly watching, listening, and learning about us. This book is for readers who want answers to three questions: Who has your data? Why should you care? And most important, what can you do about it?

Internet Privacy Rights Paul Bernal 2014-03-27 What rights to privacy do we have on the internet, and how can we make them real?

Economics of Information Security and Privacy III Bruce Schneier 2012-09-26 The Workshop on the Economics of Information Security (WEIS) is the leading forum for interdisciplinary scholarship on information security, combining expertise from the fields of economics, social science, business, law, policy and computer science. Prior workshops have explored the role of incentives between attackers and defenders, identified market failures dogging Internet security, and assessed investments in cyber-defense. Current contributions build on past efforts using empirical and analytic tools to not only understand threats, but also strengthen security through novel evaluations of available solutions. Economics of Information Security and Privacy III addresses the following questions: how should information risk be modeled given the constraints of rare incidence and high interdependence; how do individuals' and organizations' perceptions of privacy and security color their decision making; how can we move towards a more secure information infrastructure and code base while accounting for the incentives of stakeholders?

Book Wars John B. Thompson 2021-03-04 This book tells the story of the turbulent decades when the book publishing industry collided with the great technological revolution of our time. From the surge of ebooks to the self-

publishing explosion and the growing popularity of audiobooks, Book Wars provides a comprehensive and fine-grained account of technological disruption in one of our most important and successful creative industries. Like other sectors, publishing has been thrown into disarray by the digital revolution. The foundation on which this industry had been based for 500 years – the packaging and sale of words and images in the form of printed books – was called into question by a technological revolution that enabled symbolic content to be stored, manipulated and transmitted quickly and cheaply. Publishers and retailers found themselves facing a proliferation of new players who were offering new products and services and challenging some of their most deeply held principles and beliefs. The old industry was suddenly thrust into the limelight as bitter conflicts erupted between publishers and new entrants, including powerful new tech giants who saw the world in very different ways. The book wars had begun. While ebooks were at the heart of many of these conflicts, Thompson argues that the most fundamental consequences lie elsewhere. The print-on-paper book has proven to be a remarkably resilient cultural form, but the digital revolution has transformed the industry in other ways, spawning new players which now wield unprecedented power and giving rise to an array of new publishing forms. Most important of all, it has transformed the broader information and communication environment, creating new challenges and new opportunities for publishers as they seek to redefine their role in the digital age. This unrivalled account of the book publishing industry as it faces its greatest challenge since Gutenberg will be essential reading for anyone interested in books and their future.

Beyond Fear Bruce Schneier 2006-05-10 Many of us, especially since 9/11, have become personally concerned about issues of security, and this is no surprise. Security is near the top of government and corporate agendas around the globe. Security-related stories appear on the front page everyday. How well though, do any of us truly understand what achieving real security involves? In Beyond Fear, Bruce Schneier invites us to take a critical look at not just the threats to our security, but the ways in which we're encouraged to think about security by law enforcement agencies, businesses of all shapes and sizes, and our national governments and militaries. Schneier believes we all can and should be better security consumers, and that the trade-offs we make in the name of security - in terms of cash outlays, taxes, inconvenience, and diminished freedoms - should be part of an ongoing negotiation in our personal, professional, and civic lives, and the subject of an open and informed national discussion. With a well-deserved reputation for original and sometimes iconoclastic thought, Schneier has a lot to say that is provocative, counter-intuitive, and just plain good sense. He explains in detail, for example, why we need

to design security systems that don't just work well, but fail well, and why secrecy on the part of government often undermines security. He also believes, for instance, that national ID cards are an exceptionally bad idea: technically unsound, and even destructive of security. And, contrary to a lot of current nay-sayers, he thinks online shopping is fundamentally safe, and that many of the new airline security measure (though by no means all) are actually quite effective. A skeptic of much that's promised by highly touted technologies like biometrics, Schneier is also a refreshingly positive, problem-solving force in the often self-dramatizing and fear-mongering world of security pundits. Schneier helps the reader to understand the issues at stake, and how to best come to one's own conclusions, including the vast infrastructure we already have in place, and the vaster systems--some useful, others useless or worse--that we're being asked to submit to and pay for. Bruce Schneier is the author of seven books, including Applied Cryptography (which Wired called "the one book the National Security Agency wanted never to be published") and Secrets and Lies (described in Fortune as "startlingly lively...¦[a] jewel box of little surprises you can actually use."). He is also Founder and Chief Technology Officer of Counterpane Internet Security, Inc., and publishes Crypto-Gram, one of the most widely read newsletters in the field of online security.

Property Rights in Personal Data Nadezhda Purtova 2012 Personal data, at least in the European legal lexicon, is not a conventional object of property rights. Yet, regardless of the actual legal circumstances, lively markets in personal data have become a reality. The so-called information industry routinely collects and deals in databases containing personal details of people as both citizens and consumers, and appears to regard this data as its property. Moreover, individuals also treat data pertaining to them as their own, and habitually disclose personal data in exchange for money, goods, services, and online social interaction. This important new book defends the ground-breaking proposal to propertise personal data. Propertisation arguably improves the position of a data subject to exercise control over his/her personal data by creating more effective tools of accountability and monitoring. It can also be used, the author shows, to enforce existing data protection rights as expressed in the EC Data Protection Directive (1995), Council of Europe Convention for the Protection of Human Rights and Fundamental Freedoms (1945) and Convention No. 108 (1981). This book inquires to what extent the propertisation of personal data is legally possible in Europe, and examines what benefits and limitations would ensue. It provides: a systematic understanding of the developments and concerns with regard to personal data; a detailed examination of the main arguments for and against the concept of property in personal data; and a European perspective on property rights

in personal data. The result is a book full of original insights that breaks new ground in addressing the problems of personal data in the European law of data protection and informational privacy."

The Twofish Encryption Algorithm Bruce Schneier 1999-04-05 The first and only guide to one of today's most important new cryptography algorithms The Twofish Encryption Algorithm A symmetric block cipher that accepts keys of any length, up to 256 bits, Twofish is among the new encryption algorithms being considered by the National Institute of Science and Technology (NIST) as a replacement for the DES algorithm. Highly secure and flexible, Twofish works extremely well with large microprocessors, 8-bit smart card microprocessors, and dedicated hardware. Now from the team who developed Twofish, this book provides you with your first detailed look at: * All aspects of Twofish's design and anatomy * Twofish performance and testing results * Step-by-step instructions on how to use it in your systems * Complete source code, in C, for implementing Twofish On the companion Web site you'll find: * A direct link to Counterpane Systems for updates on Twofish * A link to the National Institute of Science and Technology (NIST) for ongoing information about the competing technologies being considered for the Advanced Encryption Standard (AES) for the next millennium For updates on Twofish and the AES process, visit these sites: * www.wiley.com/compbooks/schneier * www.counterpane.com * www.nist.gov/aes Wiley Computer Publishing Timely.Practical.Reliable Visit our Web site at www.wiley.com/compbooks/ Visit the companion Web site at www.wiley.com/compbooks/schneier

Public Management Information Systems Rocheleau, Bruce 2005-12-31 "This book focuses on the key processes faced by managers in governmental organizations, including planning, purchasing, training and learning, politics, accountability, ethics, best practices, and evaluation"--Provided by publisher.

An Introduction to Mass Surveillance and International Law Archit Pandey 2016-07-05 Seminar paper from the year 2015 in the subject Law - European and International Law, Intellectual Properties, grade: 1,3, University of Mannheim, language: English, abstract: This paper focuses on mass surveillance and its legality under the national laws of a few countries and international law as a whole. Many among us frequently hear the term ‘mass surveillance’ these days, and connect it with government monitoring us through the internet and other media – keeping a note on who we are, what we do, any signs within us that could be contrary to the national security and so on. After all, if you are a good, law-abiding citizen, then what do you have to fear about? However, what about the privacy of an individual? As a law-abiding citizen living in a liberal democracy, shouldn’t one have the right to

indulge freely in legal activities without any fear or backlash from the authority? Or, is it that as long as you do what you're told, there is nothing to fear? This paper shall analyze these questions, and some more, where we look into these issues especially from an international and legal perspective. By reading this paper, the reader has an opportunity to understand surveillance and its background, and get a thorough understanding of arguments put forward by both the supporters of the surveillance laws (i.e. the government) and those who are against it. This paper looks at how mass surveillance is defined under laws of various countries, since there is no specific international law that deals with it. At the end, the paper presents plausible international laws and regulations that can be viewed to assess mass surveillance according to the current laws in place.

Carry On Bruce Schneier 2013-12-16 A look at the world of twenty-first-century security features over 150 of the author's commentaries on such topics as airport surveillance, cyberterrorism, privacy, and the economics of security.

Dark Mirror Barton Gellman 2020-05-21 'A remarkable, authentic and chilling exposé of a global conspiracy that reads like a first-rate conspiracy thriller: a book of gripping, compulsive and disturbing impact' William Boyd Dark Mirror is the ultimate inside account of the vast, global surveillance network that now pervades all our lives. Barton Gellman's informant called himself 'Verax' – the truth-teller. It was only later that Verax unmasked himself as Edward Snowden. But Gellman's primary role in bringing Snowden's revelations to light, for which he shared the Pulitzer prize, is only the beginning of this gripping real-life spy story. Snowden unlocked the door: here Gellman describes what he found on the other side over the course of a years-long journey of investigation. It is also the story of his own escalating battle against unknown digital adversaries after he discovered his own name on a file in the leaked document trove and realised that he himself was under attack. Through a gripping narrative of paranoia, clandestine operations and jaw-dropping revelations, Dark Mirror delineates in full for the first time the hidden superstructure that connects government espionage with Silicon Valley. Who is spying on us and why? Here are the answers.

Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World Bruce Schneier 2015-03-02 "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.

Cult of the Dead Cow Joseph Menn 2019-06-04 The shocking untold story of the elite secret society of hackers fighting to protect our privacy, our freedom, and even democracy itself. Cult of the Dead Cow is the tale of the oldest, most respected, and most famous American hacking group of all time. Though until now it has remained mostly anonymous, its members invented the concept of hacktivism, released the top tool for testing password security, and created what was for years the best technique for controlling computers from afar, forcing giant companies to work harder to protect customers. They contributed to the development of Tor, the most important privacy tool on the net, and helped build cyberweapons that advanced US security without injuring anyone. With its origins in the earliest days of the Internet, the cDc is full of oddball characters -- activists, artists, even future politicians. Many of these hackers have become top executives and advisors walking the corridors of power in Washington and Silicon Valley. The most famous is former Texas Congressman and current presidential candidate Beto O'Rourke, whose time in the cDc set him up to found a tech business, launch an alternative publication in El Paso, and make long-shot bets on unconventional campaigns. Today, the group and its followers are battling electoral misinformation, making personal data safer, and battling to keep technology a force for good instead of for surveillance and oppression. Cult of the Dead Cow shows how governments, corporations, and criminals came to

hold immense power over individuals and how we can fight back against them.
Schneier on Security Bruce Schneier 2009-03-16 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.
The Hacker and the State Ben Buchanan 2020 The threat of cyberwar can feel very Hollywood: nuclear codes hacked, power plants melting down, cities burning. In reality, state-sponsored hacking is covert, insidious, and constant. It is also much harder to prevent. Ben Buchanan reveals the cyberwar that's already here, reshaping the global contest for geopolitical advantage.
Serious Cryptography Jean-Philippe Aumasson 2017-11-06 This practical guide to modern encryption breaks down the fundamental mathematical concepts at the heart of cryptography without shying away from meaty discussions of how they work. You'll learn about authenticated encryption, secure randomness, hash functions, block ciphers, and public-key techniques such as RSA and elliptic curve cryptography. You'll also learn: - Key concepts in cryptography, such as computational security, attacker models, and forward secrecy - The strengths and limitations of the TLS protocol behind HTTPS secure websites - Quantum computation and post-quantum cryptography - About various vulnerabilities by examining numerous code examples and use cases - How to choose the best algorithm or protocol and ask vendors the right questions Each chapter includes a discussion of common implementation mistakes using real-world examples and details what could go wrong and how to avoid these pitfalls. Whether you're a seasoned practitioner or a beginner looking to dive into the field, Serious Cryptography will provide a complete survey of modern encryption and its applications.
The Future of Violence - Robots and Germs, Hackers and Drones Benjamin Wittes 2016-03-15 The terrifying new role of technology in a world at war
Bruce Schneier on Trust Set Bruce Schneier 2014-03-17 Save almost 25% on this two-book set from Bruce Schneier covering issues of social trust and security This set includes two books from security expert Bruce Schneier, Liars and Outliers: Enabling the Trust that Society Needs to Thrive and Carry On: Sounds Advice from

Schneier on Security. In Liars and Outliers, Schneier covers the topic of trust in society and how issues of trust are critical to solving problems as diverse as corporate responsibility, global warming, and the political system. Insightful and entertaining, the weaves together ideas from across the social and biological sciences to explain how society induces trust and how trust facilitates and stabilizes society. Carry On features more than 140 articles by Schneier, including more than twenty unpublished articles, covering such security issues as crime and terrorism, human security, privacy and surveillance, the psychology of security, security and technology, travel and security, and more. A two-book set from a renowned author, technologist, and security expert Covers such current topics as the Internet as surveillance state, Chinese cyberattackes, privacy and social networking, aviation security, and more Ideal for IT professionals, security and networking engineers, hackers, consultants, and technology vendors Together, these two books offer deep and practical insight into a wide range of security topics for professionals in technology fields, as well as anyone interested in the larger philosophical issues of security.
Introduction to Privacy Enhancing Technologies Carlisle Adams 2021-11-19 This textbook provides a unique lens through which the myriad of existing Privacy Enhancing Technologies (PETs) can be easily comprehended and appreciated. It answers key privacy-centered questions with clear and detailed explanations. Why is privacy important? How and why is your privacy being eroded and what risks can this pose for you? What are some tools for protecting your privacy in online environments? How can these tools be understood, compared, and evaluated? What steps can you take to gain more control over your personal data? This book addresses the above questions by focusing on three fundamental elements: It introduces a simple classification of PETs that allows their similarities and differences to be highlighted and analyzed; It describes several specific PETs in each class, including both foundational technologies and important recent additions to the field; It explains how to use this classification to determine which privacy goals are actually achievable in a given real-world environment. Once the goals are known, this allows the most appropriate PETs to be selected in order to add the desired privacy protection to the target environment. To illustrate, the book examines the use of PETs in conjunction with various security technologies, with the legal infrastructure, and with communication and computing technologies such as Software Defined Networking (SDN) and Machine Learning (ML). Designed as an introductory textbook on PETs, this book is essential reading for graduate-level students in computer science and related fields, prospective PETs researchers,

privacy advocates, and anyone interested in technologies to protect privacy in online environments.
Life after Privacy Firmin DeBrabander 2020-09-08 Privacy, which digital citizens eagerly relinquish, is not so essential to the health and welfare of democracy after all.
Windows Into the Soul Gary T. Marx 2016-05-31 In Windows into the Soul, Gary T. Marx sums up a lifetime of work on issues of surveillance and social control by disentangling and parsing the empirical richness of watching and being watched. Ultimately, Marx argues, recognizing complexity and asking the right questions is essential to bringing light and accountability to the darker, more iniquitous corners of our emerging surveillance society.
We Have Root Bruce Schneier 2019-09-04 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.
Enforcing Privacy David Wright 2016-04-19 This book is about enforcing privacy and data protection. It demonstrates different approaches – regulatory, legal and technological – to enforcing privacy. If regulators do not enforce laws or regulations or codes or do not have the resources, political support or wherewithal to enforce them, they effectively eviscerate and make meaningless such laws or regulations or codes, no matter how laudable or well-intentioned. In some cases, however, the mere existence of such laws or regulations, combined with a credible threat to invoke them, is sufficient for regulatory purposes. But the threat has to be credible. As some of the authors in this book make clear – it is a theme that runs throughout this book – “carrots” and “soft law” need to be backed up by “sticks” and “hard law”. The authors of this book view privacy enforcement as an activity that goes beyond regulatory enforcement, however. In some sense, enforcing privacy is a task that befalls to all of us. Privacy

advocates and members of the public can play an important role in combatting the continuing intrusions upon privacy by governments, intelligence agencies and big companies. Contributors to this book - including regulators, privacy advocates, academics, SMEs, a Member of the European Parliament, lawyers and a technology researcher – share their views in the one and only book on Enforcing Privacy.

The Cybersecurity Dilemma Ben Buchanan 2017-02-01 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.

They Know Everything About You Robert Scheer 2015-02-24 They Know Everything About You is a groundbreaking exposé of how government agencies and tech corporations monitor virtually every aspect of our lives, and a fierce defense of privacy and democracy. The revelation that the government has access to a vast trove of personal online data demonstrates that we already live in a surveillance society. But the erosion of privacy rights extends far beyond big government. Intelligence agencies such as the NSA and CIA are using Silicon Valley corporate partners as their data spies. Seemingly progressive tech companies are joining forces with snooping government agencies to create a brave new world of wired tyranny. Life in the digital age poses an unprecedented challenge to our constitutional liberties, which guarantee a wall of privacy between the individual and the government. The basic assumption of democracy requires the ability of the individual to experiment with ideas and associations within a protected zone, as secured by the Constitution. The unobserved moment embodies the most basic of human rights, yet it is being squandered in the name of national security and consumer convenience. Robert Scheer argues that the information revolution, while a source of public enlightenment, contains the seeds of

freedom's destruction in the form of a surveillance state that exceeds the wildest dream of the most ingenious dictator. The technology of surveillance, unless vigorously resisted, represents an existential threat to the liberation of the human spirit.

Hands-On Cryptography with Python Samuel Bowne 2018-06-29 Learn to evaluate and compare data encryption methods and attack cryptographic systems Key Features Explore popular and important cryptographic methods Compare cryptographic modes and understand their limitations Learn to perform attacks on cryptographic systems Book Description Cryptography is essential for protecting sensitive information, but it is often performed inadequately or incorrectly. Hands-On Cryptography with Python starts by showing you how to encrypt and evaluate your data. The book will then walk you through various data encryption methods,such as obfuscation, hashing, and strong encryption, and will show how you can attack cryptographic systems. You will learn how to create hashes, crack them, and will understand why they are so different from each other. In the concluding chapters, you will use three NIST-recommended systems: the Advanced Encryption Standard (AES), the Secure Hash Algorithm (SHA), and the Rivest-Shamir-Adleman (RSA). By the end of this book, you will be able to deal with common errors in encryption. What you will learn Protect data with encryption and hashing Explore and compare various encryption methods Encrypt data using the Caesar Cipher technique Make hashes and crack them Learn how to use three NIST-recommended systems: AES, SHA, and RSA Understand common errors in encryption and exploit them Who this book is for Hands-On Cryptography with Python is for security professionals who want to learn to encrypt and evaluate data, and compare different encryption methods.

Army of None Paul Scharre 2019-03-12 A Pentagon defense expert and former U.S. Army Ranger explores what it would mean to give machines authority over the ultimate decision of life or death.

Obfuscation Finn Brunton 2015-09-04 How we can evade, protest, and sabotage today's pervasive digital surveillance by deploying more data, not less—and why we should. With Obfuscation, Finn Brunton and Helen Nissenbaum mean to start a revolution. They are calling us not to the barricades but to our computers, offering us ways to fight today's pervasive digital surveillance—the collection of our data by governments, corporations, advertisers, and hackers. To the toolkit of privacy protecting techniques and projects, they propose adding obfuscation: the deliberate use of ambiguous, confusing, or misleading information to interfere with surveillance and data collection projects. Brunton and Nissenbaum provide tools and a rationale for evasion, noncompliance, refusal,

even sabotage—especially for average users, those of us not in a position to opt out or exert control over data about ourselves. Obfuscation will teach users to push back, software developers to keep their user data safe, and policy makers to gather data without misusing it. Brunton and Nissenbaum present a guide to the forms and formats that obfuscation has taken and explain how to craft its implementation to suit the goal and the adversary. They describe a series of historical and contemporary examples, including radar chaff deployed by World War II pilots, Twitter bots that hobbled the social media strategy of popular protest movements, and software that can camouflage users' search queries and stymie online advertising. They go on to consider obfuscation in more general terms, discussing why obfuscation is necessary, whether it is justified, how it works, and how it can be integrated with other privacy practices and technologies.

The Aisles Have Eyes Joseph Turow 2017-01-17 The author of Media Today offers “a trenchant, timely, and troubling account of [retailers’] data-mining, in-store tracking, and predictive analytics” (The Philadelphia Inquirer). By one expert’s prediction, within twenty years half of Americans will have body implants that tell retailers how they feel about specific products as they browse their local stores. The notion may be outlandish, but it reflects executives’ drive to understand shoppers in the aisles with the same obsessive detail that they track us online. In fact, a hidden surveillance revolution is already taking place inside brick-and-mortar stores, where Americans still do most of their buying. Drawing on his interviews with retail executives, analysis of trade publications, and experiences at insider industry meetings, advertising and digital studies expert Joseph Turow pulls back the curtain on these trends, showing how a new hyper-competitive generation of merchants—including Macy’s, Target, and Walmart—is already using data mining, in-store tracking, and predictive analytics to change the way we buy, undermine our privacy, and define our reputations. Eye-opening and timely, Turow’s book is essential reading to understand the future of shopping. “Turow shows shopping today to be an exercise in unwitting self-revelation—and not only online.”—The Wall Street Journal “Thoroughly researched and clearly presented with detailed evidence and fascinating peeks inside the retail industry. Much of this information is startling and even chilling, particularly when Turow shows how retail data-tracking can enable discrimination and societal stratification.”—Publishers Weekly “Revealing . . . Valuable reading for shoppers and retailers alike.”—Kirkus Reviews

Protect Your Macintosh Bruce Schneier 1994-01 Uncovers a host of problems and suggested solutions for issues ranging from protecting data from thieves or spies; backing up and storing files; and safeguarding from viruses to

choosing bars, chains, and locks to prevent physical removal. Original. (All Users).

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