Council of the European Union
General Secretariat

READING REFERENCES

Council Library

2019

An introduction to cyber security: privacy and security risks

Council of the European Union
Rue de la Loi/Wetstraat 175 - B-1048 Bruxelles/Brussel - Belgique/België
Tel. +32 (0)2 281 65 25
Follow us http://www.consilium.europa.eu/en/library-blog/ - #EUCOlibrary

Introduction

Cyber security is becoming a more crucial topic in both policy making and the every-day life of EU citizens. With October being the European Cyber Security month, as well the Finnish Presidency priority on hybrid and cyber threats, the Council Library has compiled a reading relating to personal cyber security as well as the importance of a strong national and international cyber security infrastructure. It contains numerous books and articles that you can access via Eureka.

Resources selected by the Council Libraries

Please note:

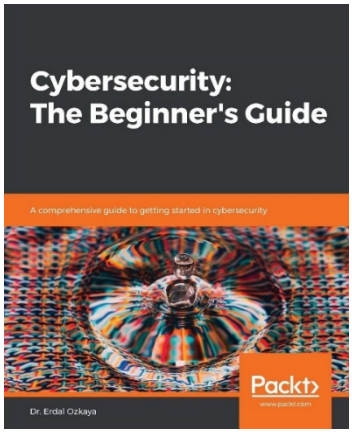
This bibliography is not exhaustive; it provides a selection of resources made by the Council Library. Most of the titles are hyperlinked to Eureka, the resource discovery service of the Council Library, where you can find additional materials on the subject. Access to some resources might be limited to registered Council Library users or to users in subscribing institutions.

The contents are the sole responsibility of their authors. Resources linked from this bibliography do not necessarily represent the positions, policies, or opinions of the Council of the European Union or the European Council.

Reuse of the covers is prohibited, they belong to the respective copyrightholders.

Additional resources may be added to this list by request - please contact the Council Library to suggest a title: library@consilium.europa.eu

Books



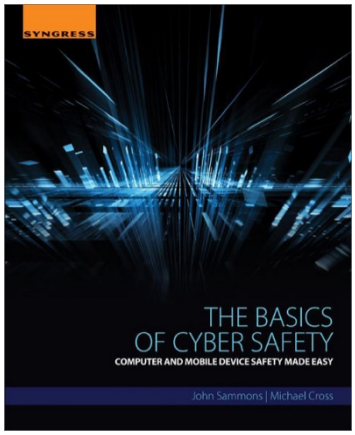
Cybersecurity : the beginner's guide : a comprehensive guide to getting started in cybersecurity

Erdal Ozkaya

Birmingham : Packt , 2019

Request via Eureka

"This book explores the need for cyber security and what individuals can do to fill the cybersecurity talent gap. Additionally, it also looks at security domain changes and how artificial intelligence and machine learning are helping to secure systems. It examines the skills and tools that everyone who wants to work as security personal need to be aware of, as well as how to think like an attacker and explore some advanced security methodologies."



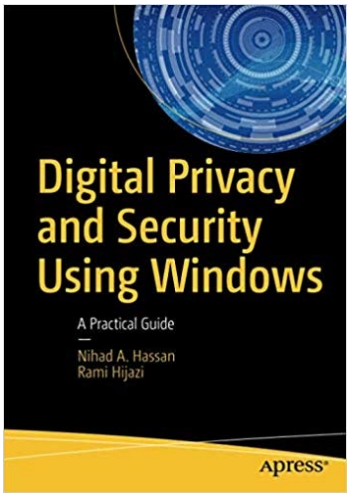
The basics of cyber safety : computer and mobile device safety made easy

John Sammons ; Michael Cross

Amsterdam, Netherlands : Elsevier , 2017

Request via Eureka

"The book presents modern tactics on how to secure computer and mobile devices, including what behaviours are safe while surfing, searching, and interacting with others in the virtual world. The book is for readers who know very little about the basic principles of keeping the devices they are connected to—or themselves—secure while online. In addition, the text discusses, in a non-technical way, the cost of connectedness to your privacy, and what you can do to it, including how to avoid all kinds of viruses, malware, cybercrime, and identity theft. Final sections provide the latest information on safe computing in the workplace and at school, and give parents steps they can take to keep young kids and teens safe online."



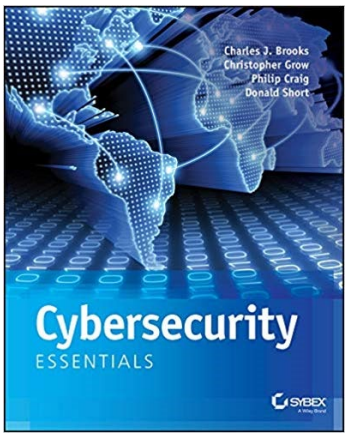
Digital privacy and security : using Windows a practical guide

Nihad Hassan ; Rami Hijazi (Eds.)

Berkeley, CA : Apress : Imprint: Apress , 2017

Request via Eureka

"Use this hands-on guide to understand the ever growing and complex world of digital security. Learn how to protect yourself from digital crime, secure your communications, and become anonymous online using sophisticated yet practical tools and techniques. This book teaches you how to secure your online identity and personal devices, encrypt your digital data and online communications, protect cloud data and Internet of Things (IoT), mitigate social engineering attacks, keep your purchases secret, and conceal your digital footprint. You will understand best practices to harden your operating system and delete digital traces using the most widely used operating system, Windows."



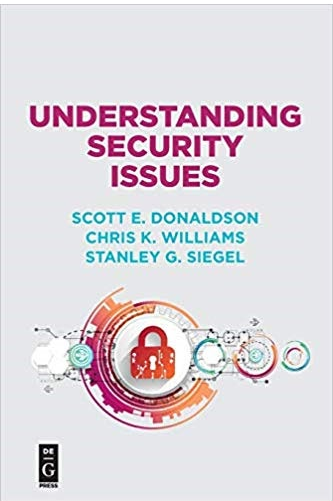
Cybersecurity essentials

Charles J. Brooks ; Philip Craig ; Donald Short

Somerset : John Wiley & Sons , 2018

Access via Eureka

"Cybersecurity Essentials provides a comprehensive introduction to the field, with expert coverage of essential topics required for entry-level cybersecurity certifications. An effective defense consists of four distinct challenges: securing the infrastructure, securing devices, securing local networks, and securing the perimeter. Overcoming these challenges requires a detailed understanding of the concepts and practices within each realm. This book provides the foundational information you need to understand the basics of the field, identify your place within it, and start down the security certification path. Each part concludes with a summary of key concepts, review questions, and hands-on exercises, allowing you to test your understanding while exercising your new critical skills"



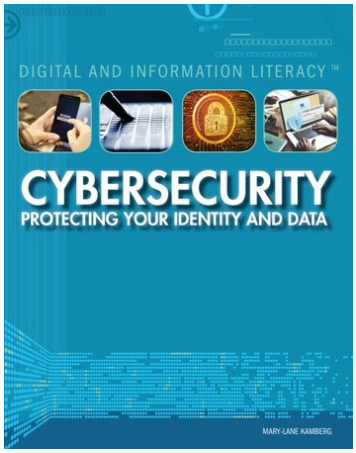
Understanding security issues

Scott E. Donaldson ; Chris K. Williams ; Stanley G. Siegel

Boston : Walter de Gruyter Incorporated , 2019

Request via Eureka

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



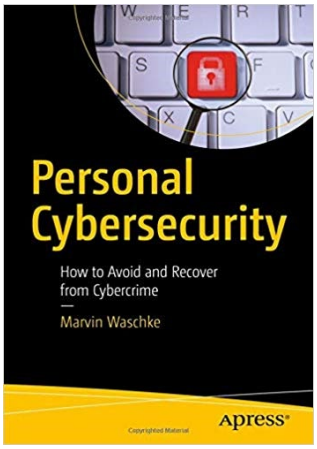
Cybersecurity : protecting your identity and data

Mary-Lane Kamberg

New York, New York : Rosen Central , 2018

Request via Eureka

"This book introduces readers to the importance of cybersecurity and addresses the current risks from hackers, viruses and other malware, identity thieves, and other online perils. It provides concrete measures that young digital natives can take to protect themselves and their computers, smartphones, and other devices. This volume's lively, cautionary narrative and useful tips will help readers effectively defend their identities and data."



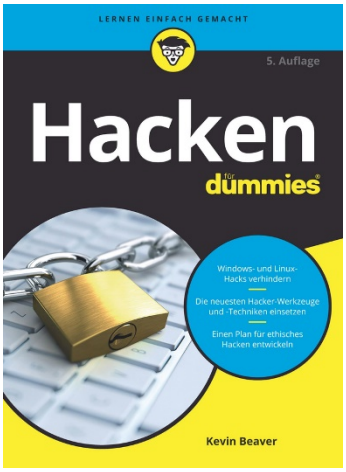
Personal cybersecurity: how to avoid and recover from cybercrime

Marvin Waschke

Berkeley, CA : Apress : Imprint: Apress , 2017

Request via Eureka

"This book covers personal cybersecurity for all modes of personal computing whether on consumer-acquired or company-issued devices: desktop PCs, laptops, mobile devices, smart TVs, WiFi and Bluetooth peripherals, and IoT objects embedded with network-connected sensors. In all these modes, the frequency, intensity, and sophistication of cyberattacks that put individual users at risk are increasing in step with accelerating mutation rates of malware and cybercriminal delivery systems. Through instructive examples and scenarios, the author shows you how to adapt and apply best practices to your own particular circumstances, how to automate and routinize your personal cybersecurity, how to recognize security breaches and act swiftly to seal them, and how to recover losses and restore functionality when attacks succeed."



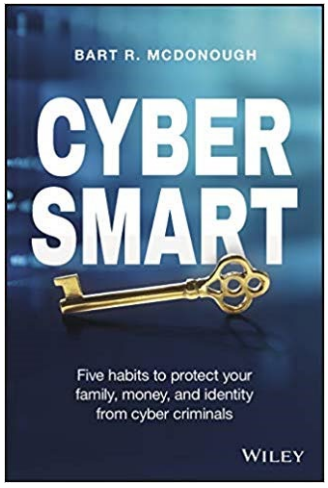
Hacken für dummies

Kevin M. Beaver (author) ; Gerhard Franken (translator)

Weinheim : Wiley , 2018

Request via Eureka

"Der beste Weg, den eigenen Computer vor Hack-Angriffen zu schützen, ist zu wissen, wie Hacker arbeiten. Betrachten Sie Ihren Computer oder Ihr Computersystem vom Standpunkt eines Hackers und verstehen Sie, wie Hacker Passwörter knacken, welche Schwachstellen Netzwerke haben, wie die Betriebssysteme Windows, Linux und MacOS X angreifbar sind und wie Datenbanken ausspioniert werden können. Der Autor zeigt Ihnen, wie Sie Ihre Systeme auf Schwachstellen überprüfen und Sicherheitslücken ausbessern können. Machen Sie sich die Tricks der Hacker zu eigen und drehen Sie den Spieß um."



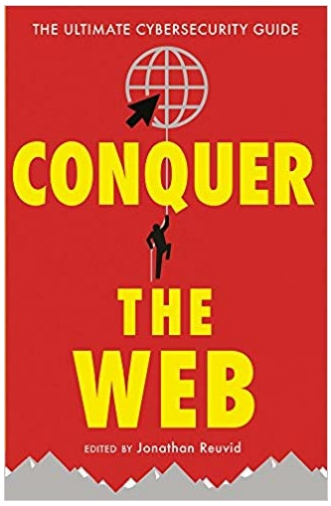
Cyber smart : five habits to protect your family, money, and identity from cyber criminals

Bart McDonough

Indianapolis, IN : Wiley , 2019

Request via Eureka

"The rise of new technologies in our lives, which has taken us from powerful mobile phones to fitness trackers and smart appliances in under a decade, has also raised the need for everyone who uses these to protect themselves from cyber scams and hackers. Every new device and online service you use that improves your life also opens new doors for attackers looking to discover your passwords, banking accounts, personal photos, and anything else you want to keep secret. In *Cyber Smart*, author Bart McDonough uses his extensive cybersecurity experience speaking at conferences for the FBI, major financial institutions, and other clients to answer the most common question he hears: "How can I protect myself at home, on a personal level, away from the office?"



Caught on the web : the ultimate cybersecurity guide

Jonathan Reuvid (Ed.)

London : Legend Business , 2018

Request via Eureka

"From passwords to opening emails, everyone knows what they should do but do you do it? Tons of malicious content floods the internet which can compromise your system and your device, be it your laptop, tablet or phone. How often do you make payments online? Do you have children and want to ensure they stay safe online? How often do you sit at a coffee shop and log onto their free WIFI? This book will guide you and provide solutions to avoid common mistakes and to combat cyber-attacks. This Guide covers areas such as: Building resilience into our IT Lifestyle Online Identity Cyber Abuse: Scenarios and Stories Protecting Devices Download and share Gaming, gamble and travel Copycat websites I Spy and QR Codes Banking, apps and Passwords etc."

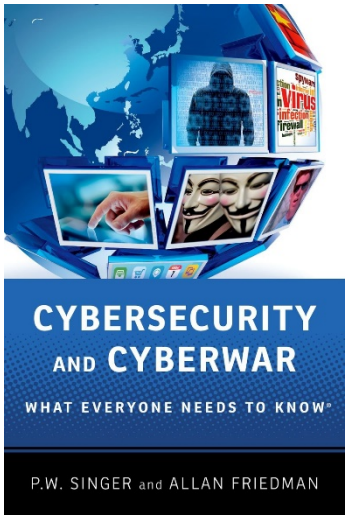
IoT-Hacking : Sicherheitslücken im Internet der Dinge erkennen und schliessen

Nitesh Dhanjani (author) ; René Schönfeldt ; Ursula Zimpfe (Eds.) ; Helmut Kraus (designer)

Heidelberg, Germany : dpunkt.verlag , 2016

Request via Eureka

"In Zukunft werden Milliarden »Dinge« über das Internet miteinander verbunden sein. Hierdurch entstehen jedoch auch gigantische Sicherheitsrisiken. In diesem Buch beschreibt der international renommierte IT-Sicherheitsexperte Nitesh Dhanjani, wie Geräte im Internet of Things von Angreifern missbraucht werden können – seien es drahtlose LED-Lampen, elektronische Türschlösser, Babyfone, Smart-TVs oder Autos mit Internetanbindung. Wenn Sie Anwendungen für Geräte entwickeln, die mit dem Internet verbunden sind, dann unterstützt Dhanjani Sie mit diesem Leitfaden bei der Erkennung und Behebung von Sicherheitslücken. Er erklärt Ihnen nicht nur, wie Sie Schwachstellen in IoT-Systemen identifizieren, sondern bietet Ihnen auch einen umfassenden Einblick in die Taktiken der Angreifer."



Cybersecurity and cyberwar : what everyone needs to know

P.W Singer ; Allan Friedman

New York : Oxford University Press , 2014

Available at Legal Library Main Collection (SJUR INF 100591)

"A generation ago, "cyberspace" was just a term from science fiction, used to describe the nascent network of computers linking a few university labs. Today, our entire modern way of life, from communication to commerce to conflict, fundamentally depends on the Internet. We face new questions in everything from our rights and responsibilities as citizens of both the online and real world to simply how to protect ourselves and our families from a new type of danger. And, yet there is perhaps no issue that has grown so important, so quickly, and that touches so many, that remains so poorly understood. The book is structured around the key question areas of cyberspace and its security: how it all works, why it all matters, and what can we do? "

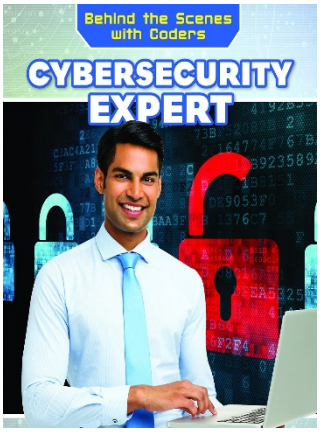
Cybersecurity

Melissa Higgins (author) ; M. G Higgins ; Joshua J. Pauli (contributors)

Minneapolis, Minnesota : Essential Library, an imprint of Abdo Publishing , 2016

Request via Eureka

"Cybersecurity discusses the evolving nature of Internet-based attacks, the vulnerabilities of individuals and corporations to these threats, and the hackers who carry out or defend against cyberattacks."



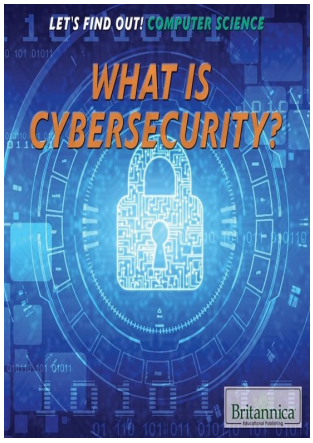
Cybersecurity expert

Daniel R. Faust

New York, NY : PowerKids Press , 2018

Request via Eureka

"With our use of technology increasing every day, it's not surprising that our need for cybersecurity experts is also growing. In this informative text, readers will learn about why we need cybersecurity and what these security experts do to keep sensitive digital information safe. Students are introduced to the concept of computational thinking, as well as STEM concepts addressed in the Next Generation Science Standards. Informational diagrams and full-color photographs help students make connections with the text."



What is cybersecurity?

Haq Kamar

New York : Britannica Educational Publishing in association with Rosen Educational Services , 2017

Request via Eureka

"Inexperienced users of computers often jump at the chance to click colorful flashing ads on the sidebar and are also tempted to download files from sites not worthy of trust. In short, people need to learn how to stay safe online. This book will introduce readers to different types of online threats, including viruses and malware. They will learn how different dangers spread and some basic steps to stop or prevent them. Additionally, this book will illuminate the scary consequences of falling prey to those threats, such as having personal information stolen or deleted, and cyberstalking."

Älypuhelimiin kohdistuvat kyberuhkat ja niiltä suojautuminen

Otto Laitinen

University of Jyväskylä informaatioteknologian tiedekunta, 2019

Abstract in English: "Smartphones are constantly evolving, and the number of the users is increasing. However, the high number of the smartphone users has attracted a significant amount of cybercrime to the industry. This paper seeks to answer two research questions, what kind of cyber threats fall on smartphones and how can cyber threats to smartphones be defended? The study revealed that the number of cyber threats to smartphones has been steadily increasing and their efficiency has improved over the last few years. The most popular cyber threat to smartphones is a malicious program called Trojan. The paper states that the most effective and simple way to protect against cyber threats is to use as complicate security code as possible and installing the system updates right away after they are released."