

INFORMATION SECURITY

GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS

Sixth Edition



Bill Nelson
Amelia Phillips
Chris Stewart

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**Bill Nelson, Amelia Phillips, Christopher
Steuart**



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Elizabeth Bauchner,2014-09-02 The digital age we entered in the twenty first century has rapidly become an age of digital crime Cybercrimes like spoofing phishing and hacking are on the rise and computer forensic technicians are on the case Even traditional crimes like murder fraud and child abuse can be both facilitated by computers and solved through computer investigation Computer Investigation helps readers understand how cybercrimes are committed and how investigators help solve them and bring the perpetrators to justice Readers will also gain a few tips for protecting themselves online and protecting their computers from intrusions and hacks

Digital Forensics André Årnes,2017-05-18 The definitive text for students of digital forensics as well as professionals looking to deepen their understanding of an increasingly critical field Written by faculty members and associates of the world renowned Norwegian Information Security Laboratory NisLab at the Norwegian University of Science and Technology NTNU this textbook takes a scientific approach to digital forensics ideally suited for university courses in digital forensics and information security Each chapter was written by an accomplished expert in his or her field many of them with extensive experience in law enforcement and industry The author team comprises experts in digital forensics cybercrime law information security and related areas Digital forensics is a key competency in meeting the growing risks of cybercrime as well as for criminal investigation generally Considering the astonishing pace at which new information technology and new ways of exploiting information technology is brought on line researchers and practitioners regularly face new technical challenges forcing them to continuously upgrade their investigatory skills Designed to prepare the next generation to rise to those challenges the material contained in Digital Forensics has been tested and refined by use in both graduate and undergraduate programs and subjected to formal evaluations for more than ten years Encompasses all aspects of the field including methodological scientific technical and legal matters Based on the latest research it provides novel insights for students including an informed look at the future of digital forensics Includes test questions from actual exam sets multiple choice questions suitable for online use and numerous visuals illustrations and case example images Features real word examples and scenarios including court cases and technical problems as well as a rich library of academic references and references to online media Digital Forensics is an excellent introductory text for programs in computer science and computer engineering and for master degree programs in military and police education It is also a valuable reference for legal practitioners police officers investigators and forensic practitioners seeking to gain a deeper understanding of digital forensics and cybercrime

Implementing Digital Forensic Readiness Jason Sachowski,2019-05-29 Implementing Digital Forensic Readiness From Reactive to Proactive Process Second Edition presents the optimal way for digital forensic and IT security professionals to implement a proactive approach to digital forensics The book details how digital forensic processes can align strategically with business operations and an already existing information and data security program Detailing proper collection preservation storage and presentation of digital evidence the procedures outlined illustrate how digital evidence can be an essential tool in mitigating

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Steuart, 2016 *Encyclopedia of Police Science* Jack Raymond Greene, 2006-10-23 In 1996 Garland published the second edition of the Encyclopedia of Police Science edited by the late William G Bailey The work covered all the major sectors of policing in the US Since then much research has been done on policing issues and there have been significant changes in techniques and in the American police system Technological advances have refined and generated methods of investigation Political events such as the terrorist attacks of September 11 2001 in the United States have created new policing needs while affecting public opinion about law enforcement These developments appear in the third expanded edition of the Encyclopedia of Police Science 380 entries examine the theoretical and practical aspects of law enforcement discussing past and present practices The added coverage makes the Encyclopedia more comprehensive with a greater focus on today's policing issues Also added are themes such as accountability the culture of police and the legal framework that affects police decision New topics discuss recent issues such as Internet and crime international terrorism airport safety or racial profiling Entries are contributed by scholars as well as experts working in police departments crime labs and various fields of policing

Digital Forensics in the Era of Artificial Intelligence Nour Moustafa, 2022-07-18 Digital forensics plays a crucial role in identifying analysing and presenting cyber threats as evidence in a court of law Artificial intelligence particularly machine learning and deep learning enables automation of the digital investigation process This book provides an in depth look at the fundamental and advanced methods in digital forensics It also discusses how machine learning and deep learning algorithms can be used to detect and investigate cybercrimes This book demonstrates digital forensics and cyber investigating techniques with real world applications It examines hard disk analytics and style architectures including Master Boot Record and GUID Partition Table as part of the investigative process It also covers cyberattack analysis in Windows Linux and network systems using virtual machines in real world scenarios Digital Forensics in the Era of Artificial Intelligence will be helpful for those interested in digital forensics and using machine learning techniques in the investigation of cyberattacks and the detection of evidence in cybercrimes The Encyclopedia of Police Science Jack R. Greene, 2007 First published in 1996 this work covers all the major sectors of policing in the United States Political events such as the terrorist attacks of September 11 2001 have created new policing needs while affecting public opinion about law enforcement This third edition

of the Encyclopedia examines the theoretical and practical aspects of law enforcement discussing past and present practices

Fraud Risk Assessment Tommie W. Singleton, Aaron J. Singleton, 2011-04-12 Praise for the Fourth Edition of Fraud Auditing and Forensic Accounting Tommie and Aaron Singleton have made important updates to a book I personally rely very heavily upon Fraud Auditing and Forensic Accounting FAFA In the newest edition they take difficult topics and explain them in straightforward actionable language All my students benefitted from reading the third edition of the FAFA to better understand the issues and area of fraud and forensic accounting With their singular focus on understandability and practicality this Fourth Edition of the book makes a very important contribution for academics researchers practitioners and students Bravo Dr Timothy A Pearson Director Division of Accounting West Virginia University Executive Director Institute for Fraud Prevention Finally someone has written a book that combines fraud examination and forensic accounting The authors have clearly explained both in their earlier edition and now they have enhanced the first with additional materials The order in which the material is presented is easy to grasp and logically follows the typical fraud examination from the awareness that something is wrong to the court case The explanatory materials presented aid this effort by being both well placed within the book and relevant to the narrative Dr Douglas E Ziegenfuss Chair and Professor Department of Accounting Old Dominion University Fraud Auditing and Forensic Accounting is a masterful compilation of the concepts found in this field The organization of the text with the incorporation of actual cases facts and figures provides a logical and comprehensive basis for learning the intricacies of fraud examination and forensic accounting The authors successfully blend the necessary basics with advanced principles in a manner that makes the book an outstanding resource for students and professionals alike Ralph Q Summerford President of Forensic Strategic Solutions PC

How To Be a Geek Matthew Fuller, 2017-09-05 Computer software and its structures devices and processes are woven into our everyday life Their significance is not just technical the algorithms programming languages abstractions and metadata that millions of people rely on every day have far reaching implications for the way we understand the underlying dynamics of contemporary societies In this innovative new book software studies theorist Matthew Fuller examines how the introduction and expansion of computational systems into areas ranging from urban planning and state surveillance to games and voting systems are transforming our understanding of politics culture and aesthetics in the twenty first century Combining historical insight and a deep understanding of the technology powering modern software systems with a powerful critical perspective this book opens up new ways of understanding the fundamental infrastructures of contemporary life economies entertainment and warfare In so doing Fuller shows that everyone must learn how to be a geek as the seemingly opaque processes and structures of modern computer and software technology have a significance that no one can afford to ignore This powerful and engaging book will be of interest to everyone interested in a critical understanding of the political and cultural ramifications of digital media and computing in the modern world

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