Computer Forensics And Investigations Answers

Guide to Computer Forensics and Investigations Handbook of Digital Forensics and Investigation **Guide to Computer Forensics and Investigations Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice** *Digital Forensics and Investigations* Cyber and Digital Forensic Investigations **Forensic Investigations** *Mastering Windows Network Forensics and Investigation* A Practical Guide to Computer Forensics Investigations **Big Data Analytics and Computing for Digital Forensic Investigations Forensic Investigations, Grades 6 - 8 Practical Cyber Forensics Placing the Suspect Behind the Keyboard** *The Best Damn Cybercrime and Digital Forensics Book Period Forensic Investigations, Grades 6 - 8* **Practical Guide to Computer Forensi Contemporary Digital Forensic Investigations of Cloud and Mobile Applications Forensic Science in Wildlife Investigations Python Digital Forensics Cookbook** *Digital Forensics, Investigation, and Response* **Guide to Computer Forensics and Investigations** *Windows Forensics* **Discover Forensics: How to Use Science for Investigations** *Android Forensics Forensic Computer Crime Investigation* **Computer Forensics and Digital Investigation with EnCase Forensic Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition** System Forensics, Investigation and Response **Cyber Forensics Practical Cyber Forensics Cybercrime and Cloud Forensics: Applications for Investigation Processes A Field Guide to Ghost Guns** *A Practical Guide to Digital Forensics Investigations* **Forensics Google Earth Forensics** *Remote Sensing Technology in Forensic Investigations Placing the Suspect Behind the Keyboard* Digital Forensics with Open Source Tools Computational Intelligence in Digital Forensics: Forensic Investigation and Applications **Digital Forensic Investigation of Internet of Things (IoT) Devices**

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Guide to Computer Forensics and Investigations Aug 25 2022

Forensics Dec 25 2019 The development of forensic science has fundamentally changed the way that crimes are solved and criminals caught. Starting from the principle that “every contact leaves a trace,” Dr. Erzinçlioglu explains investigative techniques that until now have remained mysteries to the outsider. Chapters on poisons, alcohol and drugs, blood and body fluids, trace and contact evidence, ballistics, terrorism and forensic science, and more reveal the workings of a science that would cause even Sherlock Holmes to marvel.

Placing the Suspect Behind the Keyboard Sep 21 2019 Placing the Suspect Behind the Keyboard is the definitive book on conducting a complete investigation of a cybercrime using digital forensics techniques as well as physical investigative procedures. This book merges a digital analysis examiner's work with the work of a case investigator in order to build a solid case to identify and prosecute cybercriminals. Brett Shavers links traditional investigative techniques with high tech crime analysis in a manner that not only determines elements of crimes, but also places the suspect at the keyboard. This book is a first in combining investigative strategies of digital forensics analysis processes alongside physical investigative techniques in which the reader will gain a holistic approach to their current and future cybercrime investigations. . Learn the tools and investigative principles of both physical and digital cybercrime investigations-and how they fit together to build a solid and complete case. . Master the techniques of conducting a holistic investigation that combines both digital and physical evidence to track down the "suspect behind the keyboard." . The only book to combine physical and digital investigative techniques.

Android Forensics Nov 04 2020 The open source nature of the platform has not only established a new direction for the industry, but enables a developer or forensic analyst to understand the device at the most fundamental level. Android Forensics covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance. The Android platform is a major source of digital forensic investigation and analysis. This book provides a thorough review of the Android platform including supported hardware devices, the structure of the Android development project and implementation of core services (wireless communication, data storage and other low-level functions). Finally, it will focus on teaching readers how to apply actual forensic techniques to recover data. Ability to forensically acquire Android devices using the techniques outlined in the book Detailed information about Android applications needed for forensics investigations Important information about SQLite, a file based structured data storage relevant for both Android and many other platforms.

Digital Forensics, Investigation, and Response Mar 08 2021 Digital Forensics, Investigation, and Response, Fourth Edition examines the fundamentals of system forensics, addresses the tools, techniques, and methods used to perform computer forensics and investigation, and explores incident and intrusion response,

Digital Forensics with Open Source Tools Aug 21 2019 Digital Forensics with Open Source Tools is the definitive book on investigating and analyzing computer systems and media using open source tools. The book is a technical procedural guide, and explains the use of open source tools on Mac, Linux and Windows systems as a platform for performing computer forensics. Both well-known and novel forensic methods are demonstrated using command-line and graphical open source computer forensic tools for examining a wide range of target systems and artifacts. Written by world-renowned forensic practitioners, this book uses the most current examination and analysis techniques in the field. It consists of 9 chapters that cover a range of topics such as the open source examination platform; disk and file system analysis; Windows systems and artifacts; Linux systems and artifacts; Mac OS X systems and artifacts; Internet artifacts; and automating analysis and extending capabilities. The book lends itself to use by students and those entering the field who do not have means to purchase new tools for different investigations. This book will appeal to forensic practitioners from areas including incident response teams and computer forensic investigators; forensic technicians from legal, audit, and consulting firms; and law enforcement agencies. Written by world-renowned forensic practitioners Details core concepts and techniques of forensic file system analysis Covers analysis of artifacts from the Windows, Mac, and Linux operating systems

Forensic Science in Wildlife Investigations May 10 2021 The range of species that fall within the realm of wildlife crimes is extensive, ranging from ferns and orchids to bald eagles and great whales. Solving these crimes is rarely dependent on the testimony of witnesses or victims. An ever-increasing number of research groups are applying scientific tests to animal and plant studies alike. However, until now, whatever progress is available in this area has remained scattered through the literature. Forensic Science in Wildlife Investigations focuses on the developing test methods that can be applied to wildlife crimes. In large part, the tests described are drawn from human-based research. Edited by Adrian Linacre, a noted forensic researcher and one of the principal pioneers active in wildlife forensics, this volume collects the work of others working across the world with both plant and animal investigations. While the book contains valuable approaches that lab investigators can employ, the scientific material is written at a level that requires no more than a fundamental knowledge of biology. Any required scientific information is provided in separate boxes. Offering practical guidance, it helps investigators and lab technicians decide on best methods, including a determination of when basic microscopy is sufficient, when DNA testing should occur, and what tests or combination of tests should be executed in a particular circumstance. The text illustrates how to identify the species and geographic region of origin of an unknown sample. Demonstrating the latest methods through real-world case studies, this volume provides the direction and practical advice needed by legal and police professionals seeking to gain the evidence needed to prosecute wildlife crimes.

Windows Forensics Jan 06 2021 The evidence is in--to solve Windows crime, you need Windows tools An arcane pursuit a decade ago, forensic science today is a household term. And while the computer forensic analyst may not lead as exciting a life as TV's CSIs do, he or she relies just as heavily on scientific principles and just as surely solves crime. Whether you are contemplating a career in this growing field or are already an analyst in a Unix/Linux environment, this book prepares you to combat computer crime in the Windows world. Here are the tools to help you recover sabotaged files, track down the source of threatening e-mails, investigate industrial espionage, and expose computer criminals. * Identify evidence of fraud, electronic theft, and employee Internet abuse * Investigate crime related to instant messaging, Lotus Notes(r), and increasingly popular browsers such as Firefox(r) * Learn what it takes to become a computer forensics analyst * Take advantage of sample forms and layouts as well as case studies * Protect the integrity of evidence * Compile a forensic response toolkit * Assess and analyze damage from computer crime and process the crime scene * Develop a structure for effectively conducting investigations * Discover how to locate evidence in the Windows Registry

Discover Forensics: How to Use Science for Investigations Dec 05 2020 Every crime scene has clues if you know where to look, and with the correct techniques, you might just uncover the truth of what happened. Moments like this are perfect for forensics to come in and save the day! In this book, experts will guide you to explore how everyday objects can provide vital clues to investigative questions. You will learn to debunk myths commonly depicted on television, immerse in Singapore stories that make headlines in newspapers and challenge yourself with fun activities. Go behind the scenes and see how forensic scientists work to solve crimes. You will realise that the science learnt in school is a useful foundation to unravelling mysteries. So let’s look at prints, knots, fibres, soil, blood, and analyse them to gather clues and find out who the culprit is. Along the way, you will also learn the methods to figure out how pure is a gold bar or how dangerous is an unknown white powder. Read on to discover the intriguing world of forensic science, and how you can answer the “who”, “what”, “where”, “when” and “how” of crimes. Remember — every contact leaves a trace!

System Forensics, Investigation and Response Jun 30 2020 "System Forensics, Investigation, and Response, Second Edition begins by examining the fundamentals of system forensics, such as what forensics is, the role of computer forensics specialists, computer forensic evidence, and application of forensic analysis skills. It also gives an overview of computer crimes, forensic methods, and laboratories. It then addresses the tools, techniques, and methods used to perform computer forensics and investigation. Finally, it explores emerging technologies as well as future directions of this interesting and cutting-edge field."--Publisher.

Practical Cyber Forensics Nov 16 2021 Become an effective cyber forensics investigator and gain a collection of practical, efficient techniques to get the job done. Diving straight into a discussion of anti-forensic techniques, this book shows you the many ways to effectively detect them. Now that you know what you are looking for, you’ll shift your focus to network forensics, where you cover the various tools available to make your network forensics process less complicated. Following this, you will work with cloud and mobile forensic techniques by considering the concept of forensics as a service (FaSS), giving you cutting-edge skills that will future-proof your career. Building on this, you will learn the process of breaking down malware attacks, web attacks, and email scams with case studies to give you a clearer view of the techniques to be followed. Another tricky technique is SSD forensics, so the author covers this in detail to give you the alternative analysis techniques you’ll need. To keep you up to speed on contemporary forensics, Practical Cyber Forensics includes a chapter on Bitcoin forensics, where key crypto-currency forensic techniques will be shared. Finally, you will see how to prepare accurate investigative reports. What You Will LearnCarry out forensic investigation on Windows, Linux, and macOS systems Detect and counter anti-forensic techniques Deploy network, cloud, and mobile forensics Investigate web and malware attacks Write efficient investigative reports Who This Book Is For Intermediate infosec professionals looking for a practical approach to investigative cyber forensics techniques.

Big Data Analytics and Computing for Digital Forensic Investigations Jan 18 2022 Digital forensics has recently gained a notable development and become the most demanding area in today’s information security requirement. This book investigates the areas of digital forensics, digital investigation and data analysis procedures as they apply to computer fraud and cybercrime, with the main objective of describing a variety of digital crimes and retrieving potential digital evidence. Big Data Analytics and Computing for Digital Forensic Investigations gives a contemporary view on the problems of information security. It presents the idea that protective mechanisms and software must be integrated along with forensic capabilities into existing forensic software using big data computing tools and techniques. Features Describes trends of digital forensics served for big data and the challenges of evidence acquisition Enables digital forensic investigators and law enforcement agencies to enhance their digital investigation capabilities with the application of data science analytics, algorithms and fusion technique This book is focused on helping professionals as well as researchers to get ready with next-generation security systems to mount the rising challenges of computer fraud and cybercrimes as well as with digital forensic investigations. Dr Suneeta Satpathy has more than ten years of teaching experience in different subjects of the Computer Science and Engineering discipline. She is currently working as an associate professor in the Department of Computer Science and Engineering, College of Bhubaneswar, affiliated with Biju Patnaik University and Technology, Odisha. Her research interests include computer forensics, cybersecurity, data fusion, data mining, big data analysis and decision mining. Dr Sachi Nandan Mohanty is an associate professor in the Department of Computer Science and Engineering at ICFAI Tech, ICFAI Foundation for Higher Education, Hyderabad, India. His research interests include data mining, big data analysis, cognitive science, fuzzy decision-making, brain–computer interface, cognition and computational intelligence.

Forensic Computer Crime Investigation Oct 03 2020 The Digital Age offers many far-reaching opportunities - opportunities that allow for fast global communications, efficient business transactions and stealthily executed cyber crimes. Featuring contributions from digital forensic experts, the editor of Forensic Computer Crime Investigation presents a vital resource that outlines the latest strategi

Cyber Forensics May 30 2020 An explanation of the basic principles of data This book explains the basic principles of data as building blocks of electronic evidential matter, which are used in a cyber forensics investigations. The entire text is written with no reference to a particular operation system or environment, thus it is applicable to all work environments, cyber investigation scenarios, and technologies. The text is written in a step-by-step manner, beginning with the elementary building blocks of data progressing upwards to the representation and storage of information. It inlcudes practical examples and illustrations throughout to guide the reader.

Practical Cyber Forensics Apr 28 2020 Become an effective cyber forensics investigator and gain a collection of practical, efficient techniques to get the job done. Diving straight into a discussion of anti-forensic techniques, this book shows you the many ways to effectively detect them. Now that you know what you are looking for, you’ll shift your focus to network forensics, where you cover the various tools available to make your network forensics process less complicated. Following this, you will work with cloud and mobile forensic techniques by considering the concept of forensics as a service (FaSS), giving you cutting-edge skills that will future-proof your career. Building on this, you will learn the process of breaking down malware attacks, web attacks, and email scams with case studies to give you a clearer view of the techniques to be followed. Another tricky technique is SSD forensics, so the author covers this in detail to give you the alternative analysis techniques you'll need. To keep you up to speed on contemporary forensics, Practical Cyber Forensics includes a chapter on Bitcoin forensics, where key crypto-currency forensic techniques will be shared. Finally, you will see how to prepare accurate investigative reports. What You Will Learn Carry out forensic investigation on Windows, Linux, and macOS systems Detect and counter anti-forensic techniques Deploy network, cloud, and mobile forensics Investigate web and malware attacks Write efficient investigative reports Who This Book Is For Intermediate infosec professionals looking for a practical approach to investigative cyber forensics techniques.

Google Earth Forensics Nov 23 2019 Google Earth Forensics is the first book to explain how to use Google Earth in digital forensic investigations. This book teaches you how to leverage Google's free tool to craft compelling location-based evidence for use in investigations and in the courtroom. It shows how to extract location-based data that can be used to display evidence in compelling audiovisual manners that explain and inform the data in contextual, meaningful, and easy-to-understand ways. As mobile computing devices become more and more prevalent and powerful, they are becoming more and more useful in the field of law enforcement investigations and forensics. Of all the widely used mobile applications, none have more potential for helping solve crimes than those with geo-location tools. Written for investigators and forensic practitioners, Google Earth Forensics is written by an investigator and trainer with more than 13 years of experience in law enforcement who will show you how to use this valuable tool anywhere at the crime scene, in the lab, or in the courtroom. Learn how to extract location-based evidence using the Google Earth program or app on computers and mobile devices Covers the basics of GPS systems, the usage of Google Earth, and helps sort through data imported from external evidence sources Includes tips on presenting evidence in compelling, easy-to-understand formats

Practical Guide to Computer Forensi Jul 12 2021 Now extensively updated, this authoritative, intensely practical guide to digital forensics draws upon the author's wide-ranging experience in law enforcement, including his pioneering work as a forensics examiner in both criminal and civil investigations. Writing for students and other readers at all levels of experience, Dr. Darren Hayes presents comprehensive, modern best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations, and more -- all designed for application in actual crime scenes. In this edition, Hayes tightly aligns his coverage with widely-respected government curricula, including NSA Knowledge Units; and with key professional certifications such as AccessData Certified Examiner (ACE). A Practical Guide to Digital Forensics Investigations, Second Edition presents more hands-on activities and case studies than any book of its kind, including short questions, essay questions, and discussion questions in every chapter. It addresses issues ranging from device hardware and software to law, privacy and ethics; scientific and government protocols to techniques for investigation and reporting. Reflecting his deep specialized knowledge, this edition offers unsurpassed coverage of mobile forensics, including a full chapter on mobile apps. It also adds new discussions of capturing investigatory data from today's ubiquitous Internet of Things (IoT) devices; as well as digital forensics techniques for incident response and related cybersecurity tasks. Throughout, Hayes presents detailed chapters on crucial topics that competitive books gloss over, including Mac forensics and investigating child endangerment.

Computer Forensics and Digital Investigation with EnCase Forensic Sep 02 2020 Conduct repeatable, defensible investigations with EnCase Forensic v7 Maximize the powerful tools and features of the industry-leading digital investigation software. Computer Forensics and Digital Investigation with EnCase Forensic v7 reveals, step by step, how to detect illicit activity, capture and verify evidence, recover deleted and encrypted artifacts, prepare court-ready documents, and ensure legal and regulatory compliance. The book illustrates each concept using downloadable evidence from the National Institute of Standards and Technology CFReDS. Customizable sample procedures are included throughout this practical guide. Install EnCase Forensic v7 and customize the user interface Prepare your investigation and set up a new case Collect and verify evidence from suspect computers and networks Use the EnCase Evidence Processor and Case Analyzer Uncover clues using keyword searches and filter results through GREP Work with bookmarks, timelines, hash sets, and libraries Handle case closure, final disposition, and evidence destruction Carry out field investigations using EnCase Portable Learn to program in EnCase EnScript

Python Digital Forensics Cookbook Apr 09 2021 Over 60 recipes to help you learn digital forensics and leverage Python scripts to amplify your examinations About This Book Develop code that extracts vital information from everyday forensic acquisitions. Increase the quality and efficiency of your forensic analysis. Leverage the latest resources and capabilities available to the forensic community. Who This Book Is For If you are a digital forensics examiner, cyber security specialist, or analyst at heart, understand the basics of Python, and want to take it to the next level, this is the book for you. Along the way, you will be introduced to a number of libraries suitable for parsing forensic artifacts. Readers will be able to use and build upon the scripts we develop to elevate their analysis. What You Will Learn Understand how Python can enhance digital forensics and investigations Learn to access the contents of, and process, forensic evidence containers Explore malware through automated static analysis Extract and review message contents from a variety of email formats Add depth and context to discovered IP addresses and domains through various Application Program Interfaces (APIs) Delve into mobile forensics and recover deleted messages from SQLite databases Index large logs into a platform to better query and visualize datasets In Detail Technology plays an increasingly large role in our daily lives and shows no sign of stopping. Now, more than ever, it is paramount that an investigator develops programming expertise to deal with increasingly large datasets. By leveraging the Python recipes explored throughout this book, we make the complex simple, quickly extracting relevant information from large datasets. You will explore, develop, and deploy Python code and libraries to provide meaningful results that can be immediately applied to your investigations. Throughout the Python Digital Forensics Cookbook, recipes include topics such as working with forensic evidence containers, parsing mobile and desktop operating system artifacts, extracting embedded metadata from documents and executables, and identifying indicators of compromise. You will also learn to integrate scripts with Application Program Interfaces (APIs) such as VirusTotal and PassiveTotal, and tools such as Axiom, Cellebrite, and EnCase. By the end of the book, you will have a sound understanding of Python and how you can use it to process artifacts in your investigations. Style and approach Our succinct recipes take a no-frills approach to solving common challenges faced in investigations. The code in this book covers a wide range of artifacts and data sources. These examples will help improve the accuracy and efficiency of your analysis—no matter the situation.

Handbook of Digital Forensics and Investigation Sep 26 2022 The Handbook of Digital Forensics and Investigation builds on the success of the Handbook of Computer Crime Investigation, bringing together renowned experts in all areas of digital forensics and investigation to provide the consummate resource for practitioners in the field. It is also designed as an accompanying text to Digital Evidence and Computer Crime, now in its third edition, providing advanced material from specialists in each area of Digital Forensics. This unique collection details how to conduct digital investigations in both criminal and civil contexts, and how to locate and utilize digital evidence on computers, networks, and embedded systems. Specifically, the Investigative Methodology section of the Handbook provides expert guidance in the three main areas of practice: Forensic Analysis, Electronic Discovery and Intrusion Investigation. The Technology section is extended and updated to reflect the state of the art in each area of specialization. The main areas of focus in the Technology section are forensic analysis of Windows, Unix, Macintosh, and embedded systems (including cellular telephones and other mobile devices), and investigations involving networks (including enterprise environments and mobile telecommunications technology). The Handbook of Digital Forensics and Investigation is an essential technical reference and on-the-job guide that IT professionals, forensic practitioners, law enforcement, and attorneys will rely on when confronted with computer related crime and digital evidence of any kind. *Provides methodologies proven in practice for conducting digital investigations of all kinds *Demonstrates how to locate and interpret a wide variety of digital evidence, and how it can be useful in investigations *Presents tools in the context of the investigative process, including EnCase, FTK, ProDiscover, foremost, XACT, Network Miner, Splunk, flow-tools, and many other specialized utilities and analysis platforms *Case examples in every chapter give readers a practical understanding of the technical, logistical, and legal challenges that arise in real investigations

Contemporary Digital Forensic Investigations of Cloud and Mobile Applications Jun 11 2021 Contemporary Digital Forensic Investigations of Cloud and Mobile Applications comprehensively discusses the implications of cloud (storage) services and mobile applications on digital forensic investigations. The book provides both digital forensic practitioners and researchers with an up-to-date and advanced knowledge of collecting and preserving electronic evidence from different types of cloud services, such as digital remnants of cloud applications accessed through mobile devices. This is the first book that covers the investigation of a wide range of cloud services. Dr. Kim-Kwang Raymond Choo and Dr. Ali Dehghantanha are leading researchers in cloud and mobile security and forensics, having organized research, led research, and been published widely in the field. Users will gain a deep overview of seminal research in the field while also identifying prospective future research topics and open challenges. Presents the most current, leading edge research on cloud and mobile application forensics, featuring a panel of top experts in the field Introduces the first book to provide an in-depth overview of the issues surrounding digital forensic investigations in cloud and associated mobile apps Covers key technical topics and provides readers with a complete understanding of the most current research findings Includes discussions on future research directions and challenges

Digital Forensic Investigation of Internet of Things (IoT) Devices Jun 18 2019 This book provides a valuable reference for digital forensics practitioners and cyber security experts operating in various fields of law enforcement, incident response and commerce. It is also aimed at researchers seeking to obtain a more profound knowledge of Digital Forensics and Cybercrime. Furthermore, the book is an exceptional advanced text for PhD and Master degree programmes in Digital Forensics and Cyber Security. Each chapter of this book is written by an internationally-renowned expert who has extensive experience in law enforcement, industry and academia. The increasing popularity in the use of IoT devices for criminal activities means that there is a maturing discipline and industry around IoT forensics. As technology becomes cheaper and easier to deploy in an increased number of discrete, everyday objects, scope for the automated creation of personalised digital footprints becomes greater. Devices which are presently included within the Internet of Things (IoT) umbrella have a massive potential to enable and shape the way that humans interact and achieve objectives. These also forge a trail of data that can be used to triangulate and identify individuals and their actions. As such, interest and developments in autonomous vehicles, unmanned drones and 'smart' home appliances are creating unprecedented opportunities for the research communities to investigate the production and evaluation of evidence through the discipline of digital forensics.

Forensic Investigations, Grades 6 - 8 Aug 13 2021 Students build unmatched deductive-reasoning skills as they become crime-solving stars. Most scenarios have more than one plausible outcome, allowing individuals or groups to broadly interpret evidence. Includes interpretive handwriting, body language, fingerprinting, and many more activities. Meets NSE correlated standards

Computational Intelligence in Digital Forensics: Forensic Investigation and Applications Jul 20 2019 Computational Intelligence techniques have been widely explored in various domains including forensics. Analysis in forensic encompasses the study of pattern analysis that answer the question of interest in security, medical, legal, genetic studies and etc. However, forensic analysis is usually performed through experiments in lab which is expensive both in cost and time. Therefore, this book seeks to explore the progress and advancement of computational intelligence technique in different focus areas of forensic studies. This aims to build stronger connection between computer scientists and forensic field experts. This book, Computational Intelligence in Digital Forensics: Forensic Investigation and Applications, is the first volume in the Intelligent Systems Reference Library series. The book presents original research results and innovative applications of computational intelligence in digital forensics. This edited volume contains seventeen chapters and presents the latest state-of-the-art advancement of Computational Intelligence in Digital Forensics; in both theoretical and application papers related to novel discovery in intelligent forensics. The chapters are further organized into three sections: (1) Introduction, (2) Forensic Discovery and Investigation, which discusses the computational intelligence technologies employed in Digital Forensic, and (3) Intelligent Forensic Science Applications, which encompasses the applications of computational intelligence in Digital Forensic, such as human anthropology, human biometrics, human by products, drugs, and electronic devices.

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Aug 01 2020 Master the tools and techniques of mobile forensic investigations Conduct mobile forensic investigations that are legal, ethical, and highly effective using the detailed information contained in this practical guide. Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition fully explains the latest tools and methods along with features, examples, and real-world case studies. Find out how to assemble a mobile forensics lab, collect prosecutable evidence, uncover hidden files, and lock down the chain of custody. This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court-ready documents. •Legally seize mobile devices, USB drives, SD cards, and SIM cards•Uncover sensitive data through both physical and logical techniques•Properly package, document, transport, and store evidence•Work with free, open source, and commercial forensic software•Perform a deep dive analysis of iOS, Android, and Windows Phone file systems•Extract evidence from application, cache, and user storage files•Extract and analyze data from IoT devices, drones, wearables, and infotainment systems•Build SQLite queries and Python scripts for mobile device file interrogation•Prepare reports that will hold up to judicial and defense scrutiny

Guide to Computer Forensics and Investigations Oct 27 2022 Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Guide to Computer Forensics and Investigations Feb 07 2021 Updated with the latest advances from the field, GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Fifth Edition combines all-encompassing topic coverage and authoritative information from seasoned experts to deliver the most comprehensive forensics resource available. This proven author team's wide ranging areas of expertise mirror the breadth of coverage provided in the book, which focuses on techniques and practices for gathering and analyzing evidence used to solve crimes involving computers. Providing clear instruction on the tools and techniques of the trade, it introduces readers to every step of the computer forensics investigation-from lab set-up to testifying in court. It also details step-by-step guidance on how to use current forensics software. Appropriate for learners new to the field, it is also an excellent refresher and technology update for professionals in law enforcement, investigations, or computer security.

Cybercrime and Cloud Forensics: Applications for Investigation Processes Mar 28 2020 While cloud computing continues to transform developments in information technology services, these advancements have contributed to a rise in cyber attacks; producing an urgent need to extend the applications of investigation processes. Cybercrime and Cloud Forensics: Applications for Investigation Processes presents a collection of research and case studies of applications for investigation processes in cloud computing environments. This reference source brings together the perspectives of cloud customers, security architects, and law enforcement agencies in the developing area of cloud forensics.

Forensic Investigations, Grades 6 - 8 Dec 17 2021 Connect students in grades 4–8 with science using Forensic Investigations: Using Science to Solve Crimes. In this 80-page book, students build deductive-reasoning skills as they become crime-solving stars. Most scenarios in the book have more than one plausible outcome, allowing individuals or groups to broadly interpret evidence. Activities include interpreting handwriting and body language and fingerprinting. The book supports National Science Education Standards.

A Field Guide to Ghost Guns Feb 25 2020 While it has always been legal for a citizen in the United States to manufacture their own firearm, the sale and distribution of such items is illegal under current U.S. law. The primary impediment to individuals making their own weapons has been access to the tooling and machinery required to convert raw materials into finished parts for assembly. However, in the last fifteen years this paradigm has changed drastically. Home builders and companies have emerged to support individuals who choose to produce their own firearm. Kits with receivers and gun components are available for hobbyists, as are 3-D printable gun designs, downloadable from the Internet in some cases. This phenomenon has led to the term ghost guns: firearms whose existence is not reported to any third party and therefore whose existence is unknown and, largely, untraceable. A Field Guide to Ghost Guns: For Police and Forensic Investigators provides a useful brief for field investigators on the technical aspects of the self-made firearm, so-called "ghost guns. The first book to focus on the emergent issue of ghost guns, coverage addresses the history of firearms making and manufacture in the U.S.—including regulated and nonregulated manufacturing, details firearm components and accessories, how to assemble a Firearm, an overview of common Types of ghost guns, and investigative considerations. Though there have been increased calls to regulate guns in the wake of numerous mass shootings, the proliferation of ghost guns—and their increasing use in crimes—would likely require additional laws and regulatory measures. Since there are few knowledgeable firearm practitioners in the field, who can render qualified opinions on the subject, author Robb Walker has taken a practical, pragmatic approach to the topic. The book defines terminology, provides photographs, and explains the concepts surrounding homemade firearm in clear, easy to understand terms. Key Features: Addresses the technology and technical aspects in creating, assembling, and/or modifying homemade firearms—both printable and assembled from pre-fabricated components Discusses the rationale and motivations behind making one's own firearm Outlines what is currently legal and illegal under U.S. law, providing indicators for investigators for illegally configured firearms A Field Guide to Ghost Guns addresses the pressing need for a practical reference on the topic. The book provides police investigators and forensic ballistics experts a useful aid to understand legal aspects and to identify ghost guns, and the paraphernalia—tooling and machinery, and otherwise—indicative of gun making in a non-formal, factory setting.

Digital Forensics and Investigations Jun 23 2022 Digital forensics has been a discipline of Information Security for decades now. Its principles, methodologies, and techniques have remained consistent despite the evolution of technology, and, ultimately, it and can be applied to any form of digital data. However, within a corporate environment, digital forensic professionals are particularly challenged. They must maintain the legal admissibility and forensic viability of digital evidence in support of a broad range of different business functions that include incident response, electronic discovery (ediscovery), and ensuring the controls and accountability of such information across networks. Digital Forensics and Investigations: People, Process, and Technologies to Defend the Enterprise provides the methodologies and strategies necessary for these key business functions to seamlessly integrate digital forensic capabilities to guarantee the admissibility and integrity of digital evidence. In many books, the focus on digital evidence is primarily in the technical, software, and investigative elements, of which there are numerous publications. What tends to get overlooked are the people and process elements within the organization. Taking a step back, the book outlines the importance of integrating and accounting for the people, process, and technology components of digital forensics. In essence, to establish a holistic paradigm—and best-practice procedure and policy approach—to defending the enterprise. This book serves as a roadmap for professionals to successfully integrate an organization’s people, process, and technology with other key business functions in an enterprise’s digital forensic capabilities.

Placing the Suspect Behind the Keyboard Oct 15 2021 Placing the Suspect Behind the Keyboard is the definitive book on conducting a complete investigation of a cybercrime using digital forensics techniques as well as physical investigative procedures. This book merges a digital analysis examiner's work with the work of a case investigator in order to build a solid case to identify and prosecute cybercriminals. Brett Shavers links traditional investigative techniques with high tech crime analysis in a manner that not only determines elements of crimes, but also places the suspect at the keyboard. This book is a first in combining investigative strategies of digital forensics analysis processes alongside physical investigative techniques in which the reader will gain a holistic approach to their current and future cybercrime investigations. Learn the tools and investigative principles of both physical and digital cybercrime investigations—and how they fit together to build a solid and complete case Master the techniques of conducting a holistic investigation that combines both digital and physical evidence to track down the "suspect behind the keyboard" The only book to combine physical and digital investigative techniques

Cyber and Digital Forensic Investigations May 22 2022 Understanding the latest capabilities in the cyber threat landscape as well as the cyber forensic challenges and approaches is the best way users and organizations can prepare for potential negative events. Adopting an experiential learning approach, this book describes how cyber forensics researchers, educators and practitioners can keep pace with technological advances, and acquire the essential knowledge and skills, ranging from IoT forensics, malware analysis, and CCTV and cloud forensics to network forensics and financial investigations. Given the growing importance of incident response and cyber forensics in our digitalized society, this book will be of interest and relevance to researchers, educators and practitioners in the field, as well as students wanting to learn about cyber forensics.

A Practical Guide to Digital Forensics Investigations Jan 26 2020

Remote Sensing Technology in Forensic Investigations Oct 23 2019 Remote Sensing Technology in Forensic Investigations provides a basic understanding of concepts involved in the use of basic geophysical surveying, metal detectors, magnetics, electromagnetics and ground penetrating radar in police and forensic investigations. Such technology can be vital in locating clandestine, buried evidence which is often concealed in the subsurface underground. Crime scene investigation and evidence collection entails locating, identifying, collecting, and cataloging. Such physical evidence searches are time consuming and can often lead to searches that require excavations, which in itself that can destroy evidence. The noninvasive, nondestructive methods outlined in this book can both reduce the time spent on searches and excavations, thereby increasing the probability of locating vital physical evidence. As such, the application of remote sensing methods has gained increased acceptance, and seen increased usage, by investigators. Remote sensing methods are based on making indirect measurements of the surface of and within the earth. The resulting measurement information can be presented in either an imaging format— such as in aerial photography—or a non-imaging format, such as in a profile or contour map. These measurements can be interpreted to identify and characterize contrasts due to differences in physical and natural properties of the materials being studied. This can include physical evidence, remains, and clandestine graves. This book will serve as a handy introductory primer to the technology, techniques, and application of such techniques. Throughout, numerous references and additional resources are provided for those investigators, forensic anthropology, and police professionals who want further information on the technology's usage for investigative purposes.

Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Jul 24 2022 As computer and internet technologies continue to advance at a fast pace, the rate of cybercrimes is increasing. Crimes employing mobile devices, data embedding/mining systems, computers, network communications, or any malware impose a huge threat to data security, while cyberbullying, cyberstalking, child pornography, and trafficking crimes are made easier through the anonymity of the internet. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice addresses current challenges and issues emerging in cyber forensics and new investigative tools and methods that can be adopted and implemented to address these issues and counter security breaches within various organizations. It also examines a variety of topics such as advanced techniques for forensic developments in computer and communication-link environments and legal perspectives including procedures for cyber investigations, standards, and policies. Highlighting a range of topics such as cybercrime, threat detection, and forensic science, this publication is an ideal reference source for security analysts, law enforcement, lawmakers, government officials, IT professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering.

Forensic Investigations Apr 21 2022 The terms forensic investigator and forensic investigation are part of our cultural identity. They can be found in the news, on television, and in film. They are invoked, generally, to imply that highly trained personnel will be collecting some form of physical evidence with eventual scientific results that cannot be questioned or bargained with. In other words, they are invoked to imply the reliability, certainty, and authority of a scientific inquiry. Using cases from the authors' extensive files, Forensic Investigations: An Introduction provides an overview of major subjects related to forensic inquiry and evidence examination. It will prepare Criminal Justice and Criminology students in forensic programs for more specialized courses and provide a valuable resource to newly employed forensic practitioners. Written by practicing and testifying forensic professionals from law enforcement, academia, mental health and the forensic sciences, this work offers a balanced scientific approach, based on the established literature, for broad appeal. The purpose of this book is to help students and professionals rid themselves of the myths and misconceptions they have accumulated regarding forensic investigators and the subsequent forensic investigations they help to conduct. It will help the reader understand the role of the forensic investigator; the nature and variety of forensic investigations that take place in the justice system; and the mechanisms by which such investigations become worthy as evidence in court. Its goals are no loftier than that. However, they could not be more necessary to our understanding of what justice is, how it is most reliably achieved, and how it can be corrupted by those who are burdened with apathy and alternative motives. A primary text for instructors teaching forensic courses related to criminal and forensic investigation Written by forensic professionals, currently in practice and testifying in court Offers applied protocols for a broad range of forensic investigations Augments theoretical constructs with recent, and relevant case studies and forensic reports Based on the most recent scientific research, practice, and protocols related to forensic inquiry

The Best Damn Cybercrime and Digital Forensics Book Period Sep 14 2021 Electronic discovery refers to a process in which electronic data is sought, located, secured, and searched with the intent of using it as evidence in a legal case. Computer forensics is the application of computer investigation and analysis techniques to perform an investigation to find out exactly what happened on a computer and who was responsible. IDC estimates that the U.S. market for computer forensics will be grow from $252 million in 2004 to $630 million by 2009. Business is strong outside the United States, as well. By 2011, the estimated international market will be $1.8 billion dollars. The Techno Forensics Conference has increased in size by almost 50% in its second year; another example of the rapid growth in the market. This book is the first to combine cybercrime and digital forensic topics to provides law enforcement and IT security professionals with the information needed to manage a digital investigation. Everything needed for analyzing forensic data and recovering digital evidence can be found in one place, including instructions for building a digital forensics lab. * Digital investigation and forensics is a growing industry * Corporate I.T. departments investigating corporate espionage and criminal activities are learning as they go and need a comprehensive guide to e-discovery * Appeals to law enforcement agencies with limited budgets

Mastering Windows Network Forensics and Investigation Mar 20 2022 An authoritative guide to investigating high-technologycrimes Internet crime is seemingly ever on the rise, making the needfor a comprehensive resource on how to investigate these crimeseven more dire. This professional-level book--aimed at lawenforcement personnel, prosecutors, and corporateinvestigators--provides you with the training you need in order toacquire the sophisticated skills and software solutions to stay onestep ahead of computer criminals. Specifies the techniques needed to investigate, analyze, anddocument a criminal act on a Windows computer or network Places a special emphasis on how to thoroughly investigatecriminal activity and now just perform the initial response Walks you through ways to present technically complicatedmaterial in simple terms that will hold up in court Features content fully updated for Windows Server 2008 R2 andWindows 7 Covers the emerging field of Windows Mobile forensics Also included is a classroom support package to ensure academicadoption, Mastering Windows Network Forensics and Investigation,2nd Edition offers help for investigating high-technologycrimes.

A Practical Guide to Computer Forensics Investigations Feb 19 2022 All you need to know to succeed in digital forensics: technical and investigative skills, in one book Complete, practical, and up-to-date Thoroughly covers digital forensics for Windows, Mac, mobile, hardware, and networks Addresses online and lab investigations, documentation, admissibility, and more By Dr. Darren Hayes, founder of Pace University’s Code Detectives forensics lab–one of America’s “Top 10 Computer Forensics Professors” Perfect for anyone pursuing a digital forensics career or working with examiners Criminals go where the money is. Today, trillions of dollars of assets are digital, and digital crime is growing fast. In response, demand for digital forensics experts is soaring. To succeed in this exciting field, you need strong technical and investigative skills. In this guide, one of the world’s leading computer orensics experts teaches you all the skills you’ll need. Writing for students and professionals at all levels, Dr. Darren Hayes presents complete best practices for capturing and analyzing evidence, protecting the chain of custody, documenting investigations, and scrupulously adhering to the law, so your evidence can always be used. Hayes introduces today’s latest technologies and technical challenges, offering detailed coverage of crucial topics such as mobile forensics, Mac forensics, cyberbullying, and child endangerment. This guide’s practical activities and case studies give you hands-on mastery of modern digital forensics tools and techniques. Its many realistic examples reflect the author’s extensive and pioneering work as a forensics examiner in both criminal and civil investigations. Understand what computer forensics examiners do, and the types of digital evidence they work with Explore Windows and Mac computers, understand how their features affect evidence gathering, and use free tools to investigate their contents Extract data from diverse storage devices Establish a certified forensics lab and implement good practices for managing and processing evidence Gather data and perform investigations online Capture Internet communications, video, images, and other content Write comprehensive reports that withstand defense objections and enable successful prosecution Follow strict search and surveillance rules to make your evidence admissible Investigate network breaches, including dangerous Advanced Persistent Threats (APTs) Retrieve immense amounts of evidence from smartphones, even without seizing them Successfully investigate financial fraud performed with digital devices Use digital photographic evidence, including metadata and social media images