

Cyber Crime Security And Digital Intelligence

This book features high-quality research papers presented at the International Conference on Applications and Techniques in Cyber Security and Digital Forensics (ICCSDF 2021), held at The NorthCap University, Gurugram, Haryana, India, during April 3–4, 2021. This book discusses the topics ranging from information security to cryptography, mobile application attacks to digital forensics, and from cyber security to blockchain. The goal of the book is to provide 360-degree view of cybersecurity to the readers which include cyber security issues, threats, vulnerabilities, novel idea, latest technique and technology, and mitigation of threats and attacks along with demonstration of practical applications. This book also highlights the latest development, challenges, methodologies as well as other emerging areas in this field. It brings current understanding of common Web vulnerabilities while maintaining awareness and knowledge of contemporary standards, practices, procedures, and methods of Open Web Application Security Project. It also expounds how to recover information after a cybercrime.

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

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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.

The First International Conference on Digital Forensics and Cyber Crime (ICDF2C) was held in Albany from September 30 to October 2, 2009. The field of digital forensics is growing rapidly with implications for several fields including law enforcement, network security, disaster recovery and accounting. This is a multidisciplinary area that requires expertise in several areas including, law,

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computer science, finance, networking, data mining, and criminal justice. This conference brought together practitioners and researchers from diverse fields providing opportunities for business and intellectual engagement among attendees. All the conference sessions were very well attended with vigorous discussions and strong audience interest. The conference featured an excellent program comprising high-quality paper presentations and invited speakers from all around the world. The first day featured a plenary session including George Philip, President of University at Albany, Harry Corbit, Superintendent of New York State Police, and William Pelgrin, Director of New York State Office of Cyber Security and Critical Infrastructure Coordination. An outstanding keynote was provided by Miklos Vasarhelyi on continuous auditing. This was followed by two parallel sessions on accounting fraud /financial crime, and multimedia and handheld forensics. The second day of the conference featured a mesmerizing keynote talk by Nitesh Dhanjani from Ernst and Young that focused on psychological profiling based on open source intelligence from social network analysis. The third day of the conference featured both basic and advanced tutorials on open source forensics.

The Government published the UK Cyber Security Strategy in June 2009 (Cm. 7642, ISBN 97801017674223), and established the Office of Cyber Security to provide strategic leadership across Government. This document sets out the Home Office's approach to tackling cyber crime, showing how to tackle such crimes directly through the provision of a law

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enforcement response, and indirectly through cross-Government working and through the development of relationships with industry, charities and other groups, as well as internationally. The publication is divided into five chapters and looks at the following areas, including: the broader cyber security context; cyber crime: the current position; the Government response and how the Home Office will tackle cyber crime.

Cybercrime Investigation Case Studies is a "first look" excerpt from Brett Shavers' new Syngress book, *Placing the Suspect Behind the Keyboard*. Case studies are an effective method of learning the methods and processes that were both successful and unsuccessful in real cases. Using a variety of case types, including civil and criminal cases, with different cybercrimes, a broad base of knowledge can be gained by comparing the cases against each other. The primary goal of reviewing successful cases involving suspects using technology to facilitate crimes is to be able to find and use the same methods in future cases. This "first look" teaches you how to place the suspect behind the keyboard using case studies.

Cyber attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. *The Handbook of Research on Threat Detection and Countermeasures in Network Security* presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security

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technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

The skills and tools for collecting, verifying and correlating information from different types of systems is an essential skill when tracking down hackers. This book explores Open Source Intelligence Gathering (OSINT) inside out from multiple perspectives, including those of hackers and seasoned intelligence experts. OSINT refers to the techniques and tools required to harvest publicly available data concerning a person or an organization. With several years of experience of tracking hackers with OSINT, the author whips up a classical plot-line involving a hunt for a threat actor. While taking the audience through the thrilling investigative drama, the author immerses the audience with in-depth knowledge of state-of-the-art OSINT tools and techniques. Technical users will want a basic understanding of the Linux command line in order to follow the examples. But a person with no Linux or programming experience can still gain a lot from this book through the commentaries. This book's unique digital investigation proposition is a combination of storytelling, tutorials, and case studies. The book explores digital investigation from multiple angles: Through the eyes of the author who has several years of experience in the subject. Through the mind of the hacker who collects massive amounts of data from multiple online sources to identify targets as well as ways to hit the

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targets. Through the eyes of industry leaders. This book is ideal for: Investigation professionals, forensic analysts, and CISO/CIO and other executives wanting to understand the mindset of a hacker and how seemingly harmless information can be used to target their organization. Security analysts, forensic investigators, and SOC teams looking for new approaches on digital investigations from the perspective of collecting and parsing publicly available information. CISOs and defense teams will find this book useful because it takes the perspective of infiltrating an organization from the mindset of a hacker. The commentary provided by outside experts will also provide them with ideas to further protect their organization's data.

Cyber Crime and Cyber Terrorism Investigator's Handbook is a vital tool in the arsenal of today's computer programmers, students, and investigators. As computer networks become ubiquitous throughout the world, cyber crime, cyber terrorism, and cyber war have become some of the most concerning topics in today's security landscape. News stories about Stuxnet and PRISM have brought these activities into the public eye, and serve to show just how effective, controversial, and worrying these tactics can become. Cyber Crime and Cyber Terrorism Investigator's Handbook describes and analyzes many of the motivations, tools, and tactics behind cyber attacks and the defenses against them. With this book, you will learn about the technological and logistic framework of cyber crime, as well as the social and legal backgrounds of its prosecution and investigation. Whether you are a law enforcement

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professional, an IT specialist, a researcher, or a student, you will find valuable insight into the world of cyber crime and cyber warfare. Edited by experts in computer security, cyber investigations, and counter-terrorism, and with contributions from computer researchers, legal experts, and law enforcement professionals, *Cyber Crime and Cyber Terrorism Investigator's Handbook* will serve as your best reference to the modern world of cyber crime. Written by experts in cyber crime, digital investigations, and counter-terrorism Learn the motivations, tools, and tactics used by cyber-attackers, computer security professionals, and investigators Keep up to date on current national and international law regarding cyber crime and cyber terrorism See just how significant cyber crime has become, and how important cyber law enforcement is in the modern world

This book constitutes the refereed proceedings of the 7th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2015, held in Seoul, South Korea, in October 2015. The 14 papers and 3 abstracts were selected from 40 submissions and cover diverse topics ranging from tactics of cyber crime investigations to digital forensic education, network forensics, and international cooperation in digital investigations.

"Digital Crime Investigation" written by Benild Joseph gives an insight to investigators helping them with the background and tools that they need to investigate crime occurring in the digital world. This extremely useful guide provides step-by-step instructions for investigating Internet crimes, including locating, interpreting, understanding, collecting, and documenting online electronic evidence to assist investigations. Law enforcement departments and security

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officers all over the world having the responsibility for enforcing, investigating and prosecuting cybercrime are overpowered, not only with the increasing number of crimes being committed but also by a lack of adequate training material. This book provides that fundamental knowledge, including how to properly collect and document online evidence, trace IP addresses, and work undercover. Cyber Crime, Security and Digital IntelligenceRoutledge

When it comes to computer crimes, the criminals got a big head start. But the law enforcement and IT security communities are now working diligently to develop the knowledge, skills, and tools to successfully investigate and prosecute Cybercrime cases. When the first edition of "Scene of the Cybercrime" published in 2002, it was one of the first books that educated IT security professionals and law enforcement how to fight Cybercrime. Over the past 5 years a great deal has changed in how computer crimes are perpetrated and subsequently investigated. Also, the IT security and law enforcement communities have dramatically improved their ability to deal with Cybercrime, largely as a result of increased spending and training. According to the 2006 Computer Security Institute's and FBI's joint Cybercrime report: 52% of companies reported unauthorized use of computer systems in the prior 12 months. Each of these incidents is a Cybecrime requiring a certain level of investigation and remediation. And in many cases, an investigation is mandates by federal compliance regulations such as Sarbanes-Oxley, HIPAA, or the Payment Card Industry (PCI) Data Security Standard. Scene of the Cybercrime, Second Edition is a completely revised and updated book which covers all of the technological, legal, and regulatory changes, which have occurred since the first edition. The book is written for dual audience; IT security professionals and members of law enforcement. It gives the

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technical experts a little peek into the law enforcement world, a highly structured environment where the "letter of the law" is paramount and procedures must be followed closely lest an investigation be contaminated and all the evidence collected rendered useless. It also provides law enforcement officers with an idea of some of the technical aspects of how cyber crimes are committed, and how technology can be used to track down and build a case against the criminals who commit them. Scene of the Cybercrime, Second Editions provides a roadmap that those on both sides of the table can use to navigate the legal and technical landscape to understand, prevent, detect, and successfully prosecute the criminal behavior that is as much a threat to the online community as "traditional" crime is to the neighborhoods in which we live. Also included is an all new chapter on Worldwide Forensics Acts and Laws. * Companion Web site provides custom tools and scripts, which readers can download for conducting digital, forensic investigations. * Special chapters outline how Cybercrime investigations must be reported and investigated by corporate IT staff to meet federal mandates from Sarbanes Oxley, and the Payment Card Industry (PCI) Data Security Standard * Details forensic investigative techniques for the most common operating systems (Windows, Linux and UNIX) as well as cutting edge devices including iPods, Blackberries, and cell phones.

Today's society is highly networked. Internet is ubiquitous and world without it is just in-conceivable. As is rightly said that there are two sides of a coin, this blessing in form of ease in access to world of information also has a flip side to it. Devils are lurking in dark to work their stealth. Each click of button takes you closer to them. Recent surveys have shown a phenomenal rise in cyber crime with in short span. Today, cyber crime is just not restricted to e mail hacking but has dug its claws in each e-interaction, producing demons like call

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different forms of cyber-attacks, the actors involved, and their motivations. It explores the key challenges in investigating and prosecuting politically motivated cyber-attacks, the lack of consistency within regulatory frameworks, and the grey zone that this creates, for cybercriminals to operate within. Connecting diverse literatures on cyberwarfare, cyberterrorism and cyber-protests, and categorising the different actors involved - state-sponsored/ supported groups, hacktivists, online protestors - the book compares the means and methods used in attacks, the various attackers, and the current strategies employed by cybersecurity agencies. It examines the current legislative framework and proposes ways in which it could be reconstructed, moving beyond the traditional and fragmented definitions used to manage offline violence. The book is an important contribution to the study of cyber-attacks within the areas of criminology, criminal justice, law and policy. It is compelling reading for all those engaged in cybercrime, cyber-security and digital forensics.

This book contains a selection of thoroughly refereed and revised papers from the Second International ICST Conference on Digital Forensics and Cyber Crime, ICDF2C 2010, held October 4-6, 2010 in Abu Dhabi, United Arab Emirates. The field of digital forensics is becoming increasingly important for law enforcement, network security, and information assurance. It is a multidisciplinary area that encompasses a number of fields, including law, computer science, finance, networking, data mining, and criminal justice. The 14 papers in this volume describe the various applications

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of this technology and cover a wide range of topics including law enforcement, disaster recovery, accounting frauds, homeland security, and information warfare. Follow the trail. Catch the perp. From one of the world's foremost investigators of computer viruses comes this comprehensive tutorial on solving cyber crimes and bringing perpetrators to justice. Author Robert M. Slade's "Software Forensics" provides expert instruction in tracking and identifying cybercriminals. A professional security consultant to Fortune 500 companies since 1987, Rob Slade teaches you the tools and methods he uses to find the invisible "DNA" on malicious computer code. The Only Comprehensive Technical Reference on the Tools and Tactics of Cybercrime Investigation and Prosecution There is no better or faster way for programmers, security analysts and consultants, security officers in the enterprise, application developers, lawyers, judges, and anyone else interested in solving cyber crime to get up to speed on forensic programming tools and methods and the nature of cyber evidence. Robert M. Slade's one-of-a-kind "Software Forensics" shows you how to --

- * Learn the technical tools available for identifying and tracking virus creators and other programming miscreants
- * Master the techniques and tactics of cyber crime investigation and prosecution
- * Analyze source code, machine code, and text strings to track and identify cyber criminals
- * Overcome attempts to misdirect investigations into cyber evidence
- * Examine eye-opening case studies from real criminal investigations
- * Understand enough of the rules of evidence and relevant legal intricacies to make your

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findings admissible in court * Learn about the hacker, cracker, and phreak communities

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 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

In recent years, industries have transitioned into the digital realm, as companies and organizations are adopting certain forms of technology to assist in

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information storage and efficient methods of production. This dependence has significantly increased the risk of cyber crime and breaches in data security. Fortunately, research in the area of cyber security and information protection is flourishing; however, it is the responsibility of industry professionals to keep pace with the current trends within this field. The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space. It presents novel solutions to securing and preserving digital information through practical examples and case studies. While highlighting topics including virus detection, surveillance technology, and social networks, this book is ideally designed for cybersecurity professionals, researchers, developers, practitioners, programmers, computer scientists, academicians, security analysts, educators, and students seeking up-to-date research on advanced approaches and developments in cyber security and information protection.

This book constitutes the refereed proceedings of the 10th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2018, held in New Orleans, LA, USA, in September 2018. The 11 reviewed full papers and 1 short paper were selected from 33 submissions and are grouped in topical sections on carving and data hiding, android, forensic readiness, hard drives and digital forensics, artefact correlation.

Today's digital economy is uniquely dependent on the Internet, yet few users or decision makers have more than a rudimentary understanding of the myriad of online

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risks that threaten us. Cyber crime is one of the main threats to the integrity and availability of data and systems. From insiders to complex external attacks and industrial worms, modern business faces unprecedented challenges; and while cyber security and digital intelligence are the necessary responses to this challenge, they are understood by only a tiny minority. In his second book on high-tech risks, Mark Johnson goes far beyond enumerating past cases and summarising legal or regulatory requirements. He describes in plain, non-technical language how cyber crime has evolved and the nature of the very latest threats. He confronts issues that are not addressed by codified rules and practice guidelines, supporting this with over 30 valuable illustrations and tables. Written for the non-technical layman and the high tech risk manager alike, the book also explores countermeasures, penetration testing, best practice principles, cyber conflict and future challenges. A discussion of Web 2.0 risks delves into the very real questions facing policy makers, along with the pros and cons of open source data. In a chapter on Digital Intelligence readers are provided with an exhaustive guide to practical, effective and ethical online investigations. Cyber Crime, Security and Digital Intelligence is an important work of great relevance in today's interconnected world and one that nobody with an interest in either risk or technology should be without. The investigator's practical guide for cybercrime evidence identification and collection Cyber attacks perpetrated against businesses, governments, organizations, and individuals have been occurring for

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decades. Many attacks are discovered only after the data has been exploited or sold on the criminal markets. Cyber attacks damage both the finances and reputations of businesses and cause damage to the ultimate victims of the crime. From the perspective of the criminal, the current state of inconsistent security policies and lax investigative procedures is a profitable and low-risk opportunity for cyber attacks. They can cause immense harm to individuals or businesses online and make large sums of money—safe in the knowledge that the victim will rarely report the matter to the police. For those tasked with probing such crimes in the field, information on investigative methodology is scarce. The Cybercrime Investigators Handbook is an innovative guide that approaches cybercrime investigation from the field-practitioner's perspective. While there are high-quality manuals for conducting digital examinations on a device or network that has been hacked, the Cybercrime Investigators Handbook is the first guide on how to commence an investigation from the location the offence occurred—the scene of the cybercrime—and collect the evidence necessary to locate and prosecute the offender. This valuable contribution to the field teaches readers to locate, lawfully seize, preserve, examine, interpret, and manage the technical evidence that is vital for effective cybercrime investigation. Fills the need for a field manual for front-line cybercrime investigators Provides practical guidance with clear, easy-to-understand language Approaches cybercrime from the perspective of the field practitioner Helps companies comply with new GDPR guidelines Offers expert advice

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from a law enforcement professional who specializes in cybercrime investigation and IT security Cybercrime Investigators Handbook is much-needed resource for law enforcement and cybercrime investigators, CFOs, IT auditors, fraud investigators, and other practitioners in related areas.

Discusses crimes commonly committed on the internet, and measures used to attempt to prevent them.

The rapid growth of internet, digital, social media and mobile users in Southeast Asia has increased the possibility of cyber misuse. The digital domain connects over half of the region population, opening economic possibilities, but also increasing their vulnerability to crimes and security breaches done via the internet.

Aside from the cyber security challenges faced by individuals and businesses, national governments that increasingly provide their services online, as well as manage physical infrastructures that are digitally connected, have become more fragile toward cyber espionages and attacks. Furthermore, not only governments are obliged to protect national cyber security and the welfare of the population, but they are also tasked to formulate regulations for private sectors operating in cyber realm. Understanding such complexities, leaders of ASEAN have agreed to work together on cyber cooperation across the various platforms of the three pillars of ASEAN. This publication is an effort to increase public awareness of cyber issues faced by the Southeast Asian region, as well as to share experiences from ASEAN countries in dealing with the complexities of cyber development and management.

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Cyber domain carries a great potential for economic development and source of employment, but it is also a field of contestation for ideology spreading and power play. Notwithstanding the intricacies, cyber security is a cross-cutting issue that would benefit from the involvement of multiple stakeholders including governments, scholars and practitioners.

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

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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.

"Digital Evidence and Computer Crime, Third Edition" provides the knowledge necessary to uncover and use digital evidence effectively in any kind of investigation. The widely-adopted first and second editions introduced thousands of students to this field and helped them deal with digital evidence. This completely updated edition provides the introductory materials that new students require, and also expands on the material presented in previous editions to help students develop these skills. The textbook teaches how computer networks function, how they can be involved in crimes, and how they can be

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used as a source of evidence. Additionally, this third edition includes updated chapters dedicated to networked Windows, Unix, and Macintosh computers, and Personal Digital Assistants. Ancillary materials include an Instructor's Manual and PowerPoint slides. Named The 2011 Best Digital Forensics Book by "InfoSec Reviews" Provides a thorough explanation of how computers & networks function, how they can be involved in crimes, and how they can be used as evidence Features coverage of the abuse of computer networks and privacy and security issues on computer networks

Cybersecurity is significant in light of the fact that cybersecurity chance is expanding. Driven by worldwide network and use of cloud administrations, similar to Amazon Web Services, to store touchy information and individual data. Across the board, helpless setup of cloud administrations combined with progressively refined cybercriminals implies the hazard that your association experiences a fruitful digital assault or information break is on the ascent. Digital dangers can emerge out of any degree of your association. You should teach your staff about basic social building tricks like phishing and more complex cybersecurity assaults like ransomware or other malware intended to take protected innovation or individual information and many more. I hereby present a manual which will not only help you to know your rights as well as how to keep yourself safe on cyberspace. The book has been awarded by many experts as well as it has also been recognised by the University of Mumbai for their B.com - Banking & Insurance as well as on

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Investment Management Program.

Malware Forensics Field Guide for Linux Systems is a handy reference that shows students the essential tools needed to do computer forensics analysis at the crime scene. It is part of Syngress Digital Forensics Field Guides, a series of companions for any digital and computer forensic student, investigator or analyst. Each Guide is a toolkit, with checklists for specific tasks, case studies of difficult situations, and expert analyst tips that will aid in recovering data from digital media that will be used in criminal prosecution. This book collects data from all methods of electronic data storage and transfer devices, including computers, laptops, PDAs and the images, spreadsheets and other types of files stored on these devices. It is specific for Linux-based systems, where new malware is developed every day. The authors are world-renowned leaders in investigating and analyzing malicious code. Chapters cover malware incident response - volatile data collection and examination on a live Linux system; analysis of physical and process memory dumps for malware artifacts; post-mortem forensics - discovering and extracting malware and associated artifacts from Linux systems; legal considerations; file identification and profiling initial analysis of a suspect file on a Linux system; and analysis of a suspect program. This book will appeal to computer forensic investigators, analysts, and specialists. A compendium of on-the-job tasks and checklists Specific for Linux-based systems in which new malware is developed every day Authors are world-renowned leaders in investigating and analyzing malicious code

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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. 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). This handbook 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,

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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

This book provides a comprehensive overview of the current and emerging challenges of cyber criminology, victimization and profiling. It is a compilation of the outcomes of the collaboration between researchers and practitioners in the cyber criminology field, IT law and security field. As Governments, corporations, security firms, and individuals look to tomorrow's cyber security challenges, this book provides a reference point for experts and forward-thinking analysts at a time when the debate over how we plan for the cyber-security of the future has become a major concern. Many criminological perspectives define crime in terms of social, cultural and material characteristics, and view crimes as taking place at a specific geographic location. This definition has allowed crime to be characterised, and crime prevention, mapping and measurement methods to be tailored to specific target audiences. However, this characterisation cannot be carried over to cybercrime, because the environment in which such crime is committed cannot be pinpointed to a geographical location, or distinctive social or cultural groups. Due to the rapid changes in technology, cyber criminals' behaviour has become dynamic, making it necessary to reclassify the typology being currently used. Essentially, cyber criminals' behaviour is evolving over time as they learn from their

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actions and others' experiences, and enhance their skills. The offender signature, which is a repetitive ritualistic behaviour that offenders often display at the crime scene, provides law enforcement agencies an appropriate profiling tool and offers investigators the opportunity to understand the motivations that perpetrate such crimes. This has helped researchers classify the type of perpetrator being sought. This book offers readers insights into the psychology of cyber criminals, and understanding and analysing their motives and the methodologies they adopt. With an understanding of these motives, researchers, governments and practitioners can take effective measures to tackle cybercrime and reduce victimization.

Drs. Pelton and Singh warn of the increasing risks of cybercrime and lay out a series of commonsense precautions to guard against individual security breaches. This guide clearly explains the technology at issue, the points of weakness and the best ways to proactively monitor and maintain the integrity of individual networks. Covering both the most common personal attacks of identity fraud, phishing, malware and breach of access as well as the larger threats against companies and governmental systems, the authors explain the vulnerabilities of the internet age. As more and more of life's transactions take place online, the average computer user and society at large have a lot to lose. All users can take steps to secure their information. Cybercrime is so subtle and hidden, people can ignore the threat until it is too

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late. Yet today about every three seconds a person is hit by some form of cyber attack out of the blue. Locking the “cyber-barn door” after a hacker has struck is way too late. Cyber security, cyber crime and cyber terrorism may seem to be intellectual crimes that don't really touch the average person, but the threat is real. Demystifying them is the most important step and this accessible explanation covers all the bases.

This book offers a comprehensive and integrative introduction to cybercrime. It provides an authoritative synthesis of the disparate literature on the various types of cybercrime, the global investigation and detection of cybercrime and the role of digital information, and the wider role of technology as a facilitator for social relationships between deviants and criminals. It includes coverage of: key theoretical and methodological perspectives; computer hacking and malicious software; digital piracy and intellectual theft; economic crime and online fraud; pornography and online sex crime; cyber-bullying and cyber-stalking; cyber-terrorism and extremism; digital forensic investigation and its legal context around the world; the law enforcement response to cybercrime transnationally; cybercrime policy and legislation across the globe. The new edition features two new chapters, the first looking at the law enforcement response to cybercrime and the second offering an extended discussion of online

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child pornography and sexual exploitation. This book includes lively and engaging features, such as discussion questions, boxed examples of unique events and key figures in offending, quotes from interviews with active offenders, and a full glossary of terms. This new edition includes QR codes throughout to connect directly with relevant websites. It is supplemented by a companion website that includes further exercises for students and instructor resources. This text is essential reading for courses on cybercrime, cyber-deviancy, digital forensics, cybercrime investigation, and the sociology of technology.

Following on the success of his introductory text, *Digital Evidence and Computer Crime*, Eoghan Casey brings together a few top experts to create the first detailed guide for professionals who are already familiar with digital evidence. *The Handbook of Computer Crime Investigation* helps readers master the forensic analysis of computer systems with a three-part approach covering tools, technology, and case studies. The Tools section provides the details on leading software programs, with each chapter written by that product's creator. The section ends with an objective comparison of the strengths and limitations of each tool. The main Technology section provides the technical "how to" information for collecting and analyzing digital evidence in common situations, starting with

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computers, moving on to networks, and culminating with embedded systems. The Case Examples section gives readers a sense of the technical, legal, and practical challenges that arise in real computer investigations. The Tools section provides details of leading hardware and software. The main Technology section provides the technical "how to" information for collecting and analysing digital evidence in common situations. Case Examples give readers a sense of the technical, legal, and practical challenges that arise in real computer investigations. This book provides an opportunity for investigators, government officials, systems scientists, strategists, assurance researchers, owners, operators and maintainers of large, complex and advanced systems and infrastructures to update their knowledge with the state of best practice in the challenging domains whilst networking with the leading representatives, researchers and solution providers. Drawing on 12 years of successful events on information security, digital forensics and cyber-crime, the 13th ICGS3-20 conference aims to provide attendees with an information-packed agenda with representatives from across the industry and the globe. The challenges of complexity, rapid pace of change and risk/opportunity issues associated with modern products, systems, special events and infrastructures. In an era of unprecedented volatile, political and economic

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environment across the world, computer-based systems face ever more increasing challenges, disputes and responsibilities, and whilst the Internet has created a global platform for the exchange of ideas, goods and services, it has also created boundless opportunities for cyber-crime. As an increasing number of large organizations and individuals use the Internet and its satellite mobile technologies, they are increasingly vulnerable to cyber-crime threats. It is therefore paramount that the security industry raises its game to combat these threats. Whilst there is a huge adoption of technology and smart home devices, comparably, there is a rise of threat vector in the abuse of the technology in domestic violence inflicted through IoT too. All these are an issue of global importance as law enforcement agencies all over the world are struggling to cope.

The emergence of the World Wide Web, smartphones, and Computer-Mediated Communications (CMCs) profoundly affect the way in which people interact online and offline.

Individuals who engage in socially unacceptable or outright criminal acts increasingly utilize technology to connect with one another in ways that are not otherwise possible in the real world due to shame, social stigma, or risk of detection. As a consequence, there are now myriad opportunities for wrongdoing and abuse through technology. This

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book offers a comprehensive and integrative introduction to cybercrime. It is the first to connect the disparate literature on the various types of cybercrime, the investigation and detection of cybercrime and the role of digital information, and the wider role of technology as a facilitator for social relationships between deviants and criminals. It includes coverage of: key theoretical and methodological perspectives, computer hacking and digital piracy, economic crime and online fraud, pornography and online sex crime, cyber-bullying and cyber-stalking, cyber-terrorism and extremism, digital forensic investigation and its legal context, cybercrime policy. This book includes lively and engaging features, such as discussion questions, boxed examples of unique events and key figures in offending, quotes from interviews with active offenders and a full glossary of terms. It is supplemented by a companion website that includes further students exercises and instructor resources. This text is essential reading for courses on cybercrime, cyber-deviancy, digital forensics, cybercrime investigation and the sociology of technology.

Written by a former NYPD cyber cop, this is the only book available that discusses the hard questions cyber crime investigators are asking. The book begins with the chapter "What is Cyber Crime? This introductory chapter describes the most common

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challenges faced by cyber investigators today. The following chapters discuss the methodologies behind cyber investigations; and frequently encountered pitfalls. Issues relating to cyber crime definitions, the electronic crime scene, computer forensics, and preparing and presenting a cyber crime investigation in court will be examined. Not only will these topics be generally be discussed and explained for the novice, but the hard questions —the questions that have the power to divide this community— will also be examined in a comprehensive and thoughtful manner. This book will serve as a foundational text for the cyber crime community to begin to move past current difficulties into its next evolution. This book has been written by a retired NYPD cyber cop, who has worked many high-profile computer crime cases

Discusses the complex relationship between the public and private sector with regards to cyber crime

Provides essential information for IT security professionals and first responders on maintaining chain of evidence

Illicit events on cyberspace become increasingly complex as cyber technology advances thereby undermining the ability of existing regulatory instruments aimed at cybersecurity and deterring cybercrime. As existing laws cannot cope with newly emerging cyber security incidents, these incidents pose security threats for digital assets including those associated with Foreign Direct Investment

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(FDI). Increasingly interdependent global market place calls for more collaborative efforts to make cyberspace safer and more suitable for business transactions. This means there is the need to work towards not only regulatory solutions at national levels but more internationally enforceable legal norms must be worked out, which is part of the discussions in this book.

"Digital Evidence and Computer Crime" provides the knowledge necessary to uncover and use digital evidence effectively in any kind of investigation. This completely updated edition provides the introductory materials that new students require, and also expands on the material presented in previous editions to help students develop these skills.

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