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KEY=DIGITAL - MARSHALL MASON

Strengthening Forensic Science in the United States A Path Forward *National Academies Press* **Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science**

educators. Building a Digital Forensic Laboratory The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants. Digital Forensics Processing and Procedures Meeting the Requirements of ISO 17020, ISO 17025, ISO 27001 and Best Practice Requirements *Newnes* **This is the first digital forensics book that covers the complete lifecycle of digital evidence and the chain of custody. This comprehensive handbook includes international procedures, best practices, compliance, and a companion web site with downloadable forms. Written by world-renowned digital forensics experts, this book is a must for any digital forensics lab. It provides anyone who handles digital evidence with a guide to proper procedure throughout the chain of custody--from incident response through analysis in the lab. A step-by-step guide to designing, building and using a digital forensics lab A comprehensive guide for all roles in a digital forensics laboratory Based on international standards and certifications Building a Digital Forensic Laboratory Establishing and Managing a Successful Facility** *Butterworth-Heinemann* **The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants Policing Digital Crime** *Routledge* **By its very nature digital crime may present a number of specific detection and investigative challenges. The use of steganography to hide child abuse images for example, can pose the kind of technical and legislative problems inconceivable just two decades ago. The volatile nature of much digital evidence can also pose problems, particularly in terms of the actions of the 'first officer on the scene'. There are also concerns over**

the depth of understanding that 'generic' police investigators may have concerning the possible value (or even existence) of digitally based evidence. Furthermore, although it is perhaps a cliché to claim that digital crime (and cybercrime in particular) respects no national boundaries, it is certainly the case that a significant proportion of investigations are likely to involve multinational cooperation, with all the complexities that follow from this. This groundbreaking volume offers a theoretical perspective on the policing of digital crime in the western world. Using numerous case-study examples to illustrate the theoretical material introduced this volume examine the organisational context for policing digital crime as well as crime prevention and detection. This work is a must-read for all academics, police practitioners and investigators working in the field of digital crime. Digital Forensics *John Wiley & Sons* **The definitive text for students of digital forensics, as well as professionals looking to deepen their understanding of an increasingly critical field Written by faculty members and associates of the world-renowned Norwegian Information Security Laboratory (NisLab) at the Norwegian University of Science and Technology (NTNU), this textbook takes a scientific approach to digital forensics ideally suited for university courses in digital forensics and information security. Each chapter was written by an accomplished expert in his or her field, many of them with extensive experience in law enforcement and industry. The author team comprises experts in digital forensics, cybercrime law, information security and related areas. Digital forensics is a key competency in meeting the growing risks of cybercrime, as well as for criminal investigation generally. Considering the astonishing pace at which new information technology – and new ways of exploiting information technology – is brought on line, researchers and practitioners regularly face new technical challenges, forcing them to continuously upgrade their investigatory skills. Designed to prepare the next generation to rise to those challenges, the material contained in Digital Forensics has been tested and refined by use in both graduate and undergraduate programs and subjected to formal evaluations for more than ten years. Encompasses all aspects of the field, including methodological, scientific, technical and legal matters Based on the latest research, it provides novel insights for students, including an informed look at the future of digital forensics Includes test questions from actual exam sets, multiple choice questions suitable for online use and numerous visuals, illustrations and case example images Features real-word examples and scenarios, including court cases and technical problems, as well as a rich library of academic references and references to online media Digital Forensics is an excellent introductory text for programs in computer science and computer engineering and for master degree programs in military and police education. It is also a valuable reference for legal practitioners, police officers, investigators, and forensic practitioners seeking to gain a deeper understanding of digital forensics and cybercrime. Guide to Computer Forensics and Investigations** *Cengage Learning* **Master the skills you need to conduct a successful**

digital investigation with Nelson/Phillips/Steuart's GUIDE TO COMPUTER FORENSICS AND INVESTIGATIONS, Sixth Edition--the most comprehensive forensics resource available. Providing clear instruction on the tools and techniques of the trade, it walks you through every step of the computer forensics investigation--from lab setup to testifying in court. The authors also thoroughly explain how to use current forensics software. The text includes the most up-to-date coverage available of Linux and Macintosh, virtual machine software such as VMware and Virtual Box, Android, mobile devices, handheld devices, cloud forensics, email, social media and the Internet of Anything. 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. Crime Scene Investigation A Guide for Law Enforcement This is a guide to recommended practices for crime scene investigation. The guide is presented in five major sections, with sub-sections as noted: (1) Arriving at the Scene: Initial Response/Prioritization of Efforts (receipt of information, safety procedures, emergency care, secure and control persons at the scene, boundaries, turn over control of the scene and brief investigator/s in charge, document actions and observations); (2) Preliminary Documentation and Evaluation of the Scene (scene assessment, "walk-through" and initial documentation); (3) Processing the Scene (team composition, contamination control, documentation and prioritize, collect, preserve, inventory, package, transport, and submit evidence); (4) Completing and Recording the Crime Scene Investigation (establish debriefing team, perform final survey, document the scene); and (5) Crime Scene Equipment (initial responding officers, investigator/evidence technician, evidence collection kits). The Best Damn Cybercrime and Digital Forensics Book Period *Syngress* **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 Digital Business Security Development: Management Technologies Management Technologies *IGI Global* **"This book provides comprehensive coverage of issues associated with maintaining business protection in digital environments, containing base level knowledge for managers who are not specialists in the field as well as advanced undergraduate and postgraduate students undertaking research and further study"--Provided by publisher. Information Security Education – Towards a Cybersecure Society 11th IFIP WG 11.8 World Conference, WISE 11, Held at the 24th IFIP World Computer Congress, WCC 2018, Poznan, Poland, September 18–20, 2018, Proceedings** *Springer* **This book constitutes the refereed proceedings of the 11th IFIP WG 11.8 World Conference on Information Security Education, WISE 11, held at the 24th IFIP World Computer Congress, WCC 2018, in Poznan, Poland, in September 2018. The 11 revised papers presented were carefully reviewed and selected from 25 submissions. They focus on cybersecurity and are organized in the following topical sections: information security learning techniques; information security training and awareness; and information security courses and curricula. Information Security Management Handbook** *CRC Press* **Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the C Implementing Digital Forensic Readiness From Reactive to Proactive Process, Second Edition** *CRC Press* **Implementing Digital Forensic Readiness: From Reactive to Proactive Process, Second Edition presents the optimal way for digital forensic and IT security professionals to implement a proactive approach to digital forensics. The book details how digital forensic processes can align strategically with business operations and an already existing information and data security program. Detailing proper collection, preservation, storage, and presentation of digital evidence, the procedures outlined illustrate how digital evidence can be an essential tool in mitigating risk and redusing the impact of both internal and external, digital incidents, disputes, and crimes. By utilizing a digital forensic readiness approach and stances, a company’s preparedness and ability to take action quickly and respond as needed. In addition, this approach enhances the ability to gather evidence, as well as the relevance, reliability, and credibility of any such evidence. New chapters to this edition include Chapter 4 on Code of Ethics and Standards, Chapter 5 on Digital Forensics as a Business, and Chapter 10 on Establishing Legal Admissibility. This book offers best practices to professionals on enhancing their digital forensic program, or how to start and develop one the right way for effective forensic readiness in any corporate or enterprise setting. Cyber Crime and Cyber Terrorism Investigator's Handbook** *Syngress* **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 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 Digital Forensics and Cyber Crime 9th International Conference, ICDF2C 2017, Prague, Czech Republic, October 9-11, 2017, Proceedings *Springer* **This book constitutes the refereed proceedings of the 9th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2017, held in Prague, Czech Republic, in October 2017. The 18 full papers were selected from 50 submissions and are grouped in topical sections on malware and botnet, deanonymization, digital forensics tools, cybercrime investigation and digital forensics triage, digital forensics tools testing and validation, hacking File System Forensic Analysis** *Addison-Wesley Professional* **The Definitive Guide to File System Analysis: Key Concepts and Hands-on Techniques Most digital evidence is stored within the computer's file system, but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discovering hidden evidence, recovering deleted data, and validating your tools. Along the way, he describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime**

scene and duplicating hard disks for "dead analysis" Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related open source tools When it comes to file system analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use. First International Workshop on Systematic Approaches to Digital Forensic Engineering Proceedings : 7-9 November 2005, Taipei, Taiwan *IEEE Computer Society Press* **The SADFE International Workshop is intended to further the advancement of computer forensic engineering by promoting innovative and leading-edge systematic approaches to cyber crime investigation. The workshop brings together top digital forensic researchers, advanced tool/product builders, and expert law enforcement from around the world for information exchange and R&D collaboration. In addition to advanced digital evidence discovery, gathering and correlation, SADFE recognizes the value of solid digital forensic engineering processes based on both technical and legal grounds. SADFE further recognizes the need of advanced forensic-enabled and proactive monitoring/response technologies. SADFE 2005 addresses broad-based, innovative digital forensic engineering technology, practical experience and process areas. Managing Cyber Risk in the Financial Sector Lessons from Asia, Europe and the USA** *Routledge* **Cyber risk has become increasingly reported as a major problem for financial sector businesses. It takes many forms including fraud for purely monetary gain, hacking by people hostile to a company causing business interruption or damage to reputation, theft by criminals or malicious individuals of the very large amounts of customer information (“big data”) held by many companies, misuse including accidental misuse or lack of use of such data, loss of key intellectual property, and the theft of health and medical data which can have a profound effect on the insurance sector. This book assesses the major cyber risks to businesses and discusses how they can be managed and the risks reduced. It includes case studies of the situation in different financial sectors and countries in relation to East Asia, Europe and the United States. It takes an interdisciplinary approach assessing cyber risks and management solutions from an economic, management risk, legal, security intelligence, insurance, banking and cultural perspective. Cybersecurity Defense and Operations** *Phase2 Advantage* **TEXTBOOK DESCRIPTION Organizations face ongoing threats to**

their information technology infrastructure on a daily basis. These security struggles need to be approached with modern techniques, a holistic view of security, and a diverse body of knowledge. With the proper tools and training, specialists in the Information Security and Cybersecurity fields will be much more capable of finding success within their roles. The Cybersecurity Defense and Operations course textbook brings cybersecurity core competencies to advanced levels with new concepts and traditional best practices. Using 14 detailed chapters designed to align with academic calendars, students will be provided with the knowledge and context needed to successfully manage the security of their technical environments. Focusing on the Information Security concerns of today, students will cover topics such as Cloud Security, Threat Intelligence Analysis, Vulnerability Management, Biometric Systems, Incident Response, Securing Systems with Cryptography, and the NICE Cybersecurity Workforce Framework. Immersive learning labs utilize the Project Ares(R) Cyber Range and Wireshark network protocol analyzer software. TEXTBOOK CHAPTERS Chapter 01: The NICE Cybersecurity Workforce Framework Chapter 02: Principles of Identity and Access Management Chapter 03: Biometric Identification and Security Systems Chapter 04: Securing Systems and Data Using Cryptography Chapter 05: Principles of Secure Network Architecture Chapter 06: Identifying Network Baselines and Anomalies Chapter 07: Incident Response and Remediation Strategies Chapter 08: Creating Testing Scenarios and Response Playbooks Chapter 09: Computer Forensics and Digital Investigations Chapter 10: Risk Management and Vulnerability Assessment Chapter 11: Business Continuity and Disaster Recovery Chapter 12: Cloud Computing Architecture and Security Chapter 13: Cloud Legal Contracts and Service Agreements Chapter 14: Threat Intelligence Collection and Analysis INSTRUCTOR RESOURCES Training institutions that adopt the Disaster Response and Recovery textbook for use in their course curricula may request corresponding instructor resources at no additional cost. These resources include lecture presentation slides, question text banks for each of the 14 chapters, and lab resource guides. For more information please contact Phase2 Advantage. ADA ACCESSIBLE COURSE MATERIALS All Phase2 Advantage digital course materials - including textbooks, lab guides, and lecture slides in PDF and PPT formats - are ADA accessible and score 100% on major Learning Management Systems such as Moodle, Blackboard, Canvas, and LearnUpon. For more information, please visit the Phase2 Advantage website at phase2advantage/higher-education. ECCWS 2018 17th European Conference on Cyber Warfare and Security V2 *Academic Conferences and publishing limited* **Forensic Nursing Science - E-Book** *Elsevier Health Sciences* **Written and edited by the most respected authorities in forensic nursing and forensic sciences, this new edition provides the tools and concepts you need to collect evidence that is admissible in court, determine the significance of that evidence, and provide accurate, reliable testimony while administering high-quality patient care. Now in full color throughout, it remains the most comprehensive, highly illustrated text of its**

kind. Provides a comprehensive, updated guide to forensic nursing science, paying special attention to the International Association of Forensic Nurses's (IAFN) goals for forensic nursing. Retains a focus on assessment skills and the collection and preservation of evidence, following the established guidelines of the forensic sciences. Prepares you to provide testimony as a fact witness or a forensic nursing expert. Includes an illustrated case study in almost every chapter, helping you relate the information to clinical practice. Highlights important recommendations for interventions in Best Practice boxes, including the evidence base for each. Summarizes important points in Key Point boxes, so you can quickly review the most important concepts in each chapter. Explores the evolving role of forensic nurses in today's health care facilities and the community. Edited by Virginia Lynch, founding member and first President of the International Association of Forensic Nurses and Janet Barber Duval, both well-respected pioneers and educators in the field. Contains 300 full-color illustrations integrated throughout the text, so you can view evidence quickly and easily, as it is likely to appear in practice. Presents information on courtroom testimony and depositions in one reorganized, streamlined chapter, giving you a full, organized treatment of this extremely important topic. Includes twelve new chapters: Digital Evidence, Medical Evidence Recovery at the Death Scene, Asphyxia, Electrical and Thermal Injury, Intrafamilial Homicide and Unexplained Childhood Death, Human Trafficking, Credential Development for Forensic Nurses, Gangs and Hate Crimes, Ethics Issues in Forensic Nursing, Forensic Physics and Fracture Analysis, Sexual Deviant Behaviors and Crime and Forensic Epidemiology. Contains heavily revised information on Prehospital Evidence, Forensic Investigation in the Hospital, and Human Abuse and Deaths in Custody. Features critical thinking questions with every case study, so you can thoroughly consider the implications of each clinical scenario. Evolve site will include appendices and additional documentation materials. Manual of Forensic Odontology *CRC Press* **The most exhaustive book on forensic dentistry, the fourth edition of this volume covers the latest advances in the field, including regulations affecting forensic dental practice and procedures in light of the Health Insurance Portability and Accessibility Act, updated ABFO guidelines, and new digital radiographic and photographic developments. Th Windows Registry Forensics Advanced Digital Forensic Analysis of the Windows Registry** *Elsevier* **Windows Registry Forensics provides the background of the Windows Registry to help develop an understanding of the binary structure of Registry hive files. Approaches to live response and analysis are included, and tools and techniques for postmortem analysis are discussed at length. Tools and techniques are presented that take the student and analyst beyond the current use of viewers and into real analysis of data contained in the Registry, demonstrating the forensic value of the Registry. Named a 2011 Best Digital Forensics Book by InfoSec Reviews, this book is packed with real-world examples using freely available open source tools. It also includes case studies and a**

CD containing code and author-created tools discussed in the book. This book will appeal to computer forensic and incident response professionals, including federal government and commercial/private sector contractors, consultants, etc. Named a 2011 Best Digital Forensics Book by InfoSec Reviews Packed with real-world examples using freely available open source tools Deep explanation and understanding of the Windows Registry – the most difficult part of Windows to analyze forensically Includes a CD containing code and author-created tools discussed in the book Digital Forensics and Investigations People, Process, and Technologies to Defend the Enterprise *CRC Press* **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. Digital Forensics and Forensic Investigations: Breakthroughs in Research and Practice Breakthroughs in Research and Practice** *IGI Global* **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. The Basics of Digital Forensics The Primer for Getting Started in Digital Forensics *Syngress* **The Basics of Digital Forensics provides a foundation for people new to the digital forensics field. This book teaches you how to conduct examinations by discussing what digital forensics is, the methodologies used, key tactical concepts, and the tools needed to perform examinations. Details on digital forensics for computers, networks, cell phones, GPS, the cloud and the Internet are discussed. Also, learn how to collect evidence, document the scene, and how deleted data can be recovered. The new Second Edition of this book provides you with completely up-to-date real-world examples and all the key technologies used in digital forensics, as well as new coverage of network intrusion response, how hard drives are organized, and electronic discovery. You'll also learn how to incorporate quality assurance into an investigation, how to prioritize evidence items to examine (triage), case processing, and what goes into making an expert witness. The Second Edition also features expanded resources and references, including online resources that keep you current, sample legal documents, and suggested further reading. Learn what Digital Forensics entails Build a toolkit and prepare an investigative plan Understand the common artifacts to look for in an exam Second Edition features all-new coverage of hard drives, triage, network intrusion response, and electronic discovery; as well as updated case studies, expert interviews, and expanded resources and references Education and Training in Forensic Science A Guide for Forensic Science Laboratories, Educational Institutions, and Students Information Security Management Handbook, Volume 3** *CRC Press* **Since 1993, the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional (CISSP) examination. Now completely revised and updated and i Guidelines on Cell Phone Forensics** *CreateSpace* **Mobile phone forensics is the science of recovering digital evidence from a mobile phone under forensically sound conditions using accepted methods. Mobile phones, especially those with advanced capabilities, are a relatively recent phenomenon, not usually covered in classical computer forensics. This guide attempts to bridge that gap by providing an in-depth look into mobile phones and explaining the technologies involved and their relationship to forensic procedures. It**

covers phones with features beyond simple voice communication and text messaging and their technical and operating characteristics. This guide also discusses procedures for the preservation, acquisition, examination, analysis, and reporting of digital information present on cell phones, as well as available forensic software tools that support those activities. Digital and Document Examination *Elsevier* **Combating Security Breaches and Criminal Activity in the Digital Sphere** *IGI Global* **With the rapid advancement in technology, a myriad of new threats have emerged in online environments. The broad spectrum of these digital risks requires new and innovative methods for protection against cybercrimes. Combating Security Breaches and Criminal Activity in the Digital Sphere is a pivotal reference source for the latest scholarly research on current trends in cyber forensic investigations, focusing on advanced techniques for protecting information security and preventing potential exploitation for online users. Featuring law enforcement perspectives, theoretical foundations, and forensic methods, this book is ideally designed for policy makers, analysts, researchers, technology developers, and upper-level students. Police Operations: Theory and Practice** *Cengage Learning* **This trusted book provides a focused, practical introduction to the key principles and practices guiding the operations of modern police departments. While maintaining its proven instructional approach and strong focus on community- and problem-oriented policing, the sixth edition of POLICE OPERATIONS: THEORY AND PRACTICE reflects the latest trends and research shaping the day-to-day operations of progressive police departments. A new Perspectives from a First-Line Supervisor feature shares practical, applied information. Highlights include new and revised information on evolving technology, the police officer hiring process, how police use websites and social media to communicate with the public, patrol techniques, cultural diversity, cell phone use and laws, hazardous materials response, federal emergency response agencies, and cyberterrorism. The authors complement this wealth of information with an appealing writing style, numerous photos and illustrations, and real-life examples to engage your interest, enhance learning, and demonstrate the professional relevance of chapter material. Now better than ever, this convenient book is an ideal resource for law enforcement students and professionals who want an accessible, up-to-date guide to essential principles and current trends and practices in police operations. 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** *Cengage Learning* **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. DNA Technology in Forensic Science *National Academies Press* **Matching DNA samples from crime scenes and suspects is rapidly becoming a key source of evidence for use in our justice system. DNA Technology in Forensic Science offers recommendations for resolving crucial questions that are emerging as DNA typing becomes more widespread. The volume addresses key issues: Quality and reliability in DNA typing, including the introduction of new technologies, problems of standardization, and approaches to certification. DNA typing in the courtroom, including issues of population genetics, levels of understanding among judges and juries, and admissibility. Societal issues, such as privacy of DNA data, storage of samples and data, and the rights of defendants to quality testing technology. Combining this original volume with the new update-The Evaluation of Forensic DNA Evidence-provides the complete, up-to-date picture of this highly important and visible topic. This volume offers important guidance to anyone working with this emerging law enforcement tool: policymakers, specialists in criminal law, forensic scientists, geneticists, researchers, faculty, and students. Forensic Investigations and Risk Management in Mobile and Wireless Communications** *IGI Global* **Mobile forensics has grown from a relatively obscure tradecraft to a crucial part of many criminal investigations, and is now used daily by examiners and analysts within local, state, and federal law enforcement as well as within the military, US government organizations, and the private “e-Discovery” industry. Developments in forensic research, tools, and processes over the past decade have been very successful and continue to change at a rapid pace. Forensic Investigations and Risk Management in Mobile and Wireless Communications is a collection of innovative research on the methods and applications of analyzing mobile devices and data for collection of information pertaining to the legal evidence related to various security breaches and intrusion detection. While highlighting topics including cybercrime, neural networks, and smartphone security, this book is ideally designed for security analysts, IT professionals, researchers, practitioners, academicians, and students currently investigating the up-and-coming aspects surrounding network security, computer science, and security engineering. Encyclopedia of Forensic Sciences** *Academic Press* **Forensic science includes all aspects of investigating a crime, including: chemistry, biology and physics, and also incorporates countless other specialties. Today, the service offered under the guise of "forensic science’ includes specialties from virtually all aspects of modern science, medicine, engineering, mathematics and technology. The**

Encyclopedia of Forensic Sciences, Second Edition is a reference source that will inform both the crime scene worker and the laboratory worker of each other's protocols, procedures and limitations. Written by leading scientists in each area, every article is peer reviewed to establish clarity, accuracy, and comprehensiveness. As reflected in the specialties of its Editorial Board, the contents covers the core theories, methods and techniques employed by forensic scientists – and applications of these that are used in forensic analysis. This 4-volume set represents a 30% growth in articles from the first edition, with a particular increase in coverage of DNA and digital forensics Includes an international collection of contributors The second edition features a new 21-member editorial board, half of which are internationally based Includes over 300 articles, approximately 10pp on average Each article features a) suggested readings which point readers to additional sources for more information, b) a list of related Web sites, c) a 5-10 word glossary and definition paragraph, and d) cross-references to related articles in the encyclopedia Available online via SciVerse ScienceDirect. Please visit www.info.sciencedirect.com for more information This new edition continues the reputation of the first edition, which was awarded an Honorable Mention in the prestigious Dartmouth Medal competition for 2001. This award honors the creation of reference works of outstanding quality and significance, and is sponsored by the RUSA Committee of the American Library Association Fingermark Visualisation Manual Digital Forensics and Cyber Crime 12th EAI International Conference, ICDF2C 2021, Virtual Event, Singapore, December 6-9, 2021, Proceedings *Springer Nature* **This book constitutes the refereed proceedings of the 12th International Conference on Digital Forensics and Cyber Crime, ICDF2C 2021, held in Singapore in December 2021. Due to COVID-19 pandemic the conference was held virtually. The 22 reviewed full papers were selected from 52 submissions and present digital forensic technologies and techniques for a variety of applications in criminal investigations, incident response and information security. The focus of ICDS2C 2021 was on various applications and digital evidence and forensics beyond traditional cybercrime investigations and litigation. Digital Preservation in Libraries Preparing for a Sustainable Future (An ALCTS Monograph)** *American Library Association* **In today's information landscape, there are fewer topics that more urgently demand expansive discourse than digital preservation, which touches on everything from technology to copyright. The Association for Library Collections and Technical Services (ALCTS) steps up to the challenge with this comprehensive overview. Global in scope, it features case studies and contributions that discuss such key issues as the history of digital preservation; digital preservation and information ethics; strategies for getting started, sustaining digitization programs, and performing evaluation; fine-tuning digital preservation workflows, with a look at Digital Streams Matrix for analyzing pathways and tasks; preserving e-books, mobile device data, and other specific types of materials; collaborative efforts in digital preservation, including jargon-free techniques for engaging non-**

technical colleagues in digital legacy tools and processes; and the copyright, legal, and administrative issues connected with digital preservation. Academic librarians, technical services staff, technologists, and administrators will all benefit from this incisive collection. Forensic Examination of Digital Evidence A Guide for Law Enforcement *CreateSpace* **Developments in the world have shown how simple it is to acquire all sorts of information through the use of computers. This information can be used for a variety of endeavors, and criminal activity is a major one. In an effort to fight this new crime wave, law enforcement agencies, financial institutions, and investment firms are incorporating computer forensics into their infrastructure. From network security breaches to child pornography investiga- tions, the common bridge is the demon- stration that the particular electronic media contained the incriminating evidence. Supportive examination procedures and protocols should be in place in order to show that the electronic media contains the incriminating evidence.**