



**ASSOCIATION OF
CHIEF POLICE OFFICERS**

ACPO Good Practice Guide for Digital Evidence

The Association of Chief Police Officers have agreed to this revised good practice guide being circulated to, and adopted by, Police Forces in England, Wales & Northern Ireland.

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Acpo Good Practice Guide

David Lilburn Watson, Andrew Jones



Acpo Good Practice Guide:

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li, 2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law. These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever more apparent. Digital forensics involves investigating computer systems and digital artefacts in general while multimedia forensics is a sub topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices such as digital cameras. This book focuses on the interface between digital forensics and multimedia forensics bringing two closely related fields of forensic expertise together to identify and understand the current state of the art in digital forensic investigation. Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication, forensic triage, forensic photogrammetry, biometric forensics, multimedia device identification and image forgery detection among many others. Key features: Brings digital and multimedia forensics together with contributions from academia, law enforcement and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices. Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices. Offers not only explanations of techniques but also real world and simulated case studies to illustrate how digital and multimedia forensics techniques work. Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides, test datasets and more case studies.

Forensic Computing Anthony Sammes, Brian Jenkinson, 2007-08-18 In the second edition of this very successful book, Tony Sammes and Brian Jenkinson show how information held in computer systems can be recovered and how it may be deliberately hidden or subverted for criminal purposes. *Forensic Computing: A Practitioner's Guide* is illustrated by plenty of case studies and worked examples and will help practitioners and students gain a clear understanding of how to recover information from computer systems in such a way as to ensure that its integrity cannot be challenged and that it will be accepted as admissible evidence in court. The principles involved in password protection and data encryption, the evaluation procedures used in circumventing these safeguards, the particular legal issues associated with computer generated evidence and how to ensure admissibility of such evidence. This edition is fully expanded and updated with treatment of metadata files, NTFS systems, CHS and LBA addressing and alternate data streams.

High-Technology Crime Investigator's Handbook Gerald L. Kovacich, William C. Boni, 2011-04-01 The high technology crime investigator's profession is one of the fastest growing professions in the world today as information security issues and crimes related to them are growing in number and magnitude at an ever increasing pace. *High Technology Crime Investigator's Handbook, Second Edition* informs professionals of the potential risks of computer crimes and serves as a guide to establishing and

managing a high technology crime investigative program Each chapter is updated with the latest information and guidance including added coverage of computer forensics and additional metrics to measure organizational performance In addition nine new chapters cover emerging trends in the field and offer invaluable guidance on becoming a successful high technology crime investigator Provides an understanding of the global information environment and its threats Explains how to establish a high technology crime investigations unit and prevention program Presents material in an engaging easy to follow manner that will appeal to investigators law enforcement professionals corporate security and information systems security professionals as well as corporate and government managers **Forensic Computing** A. J. Sammes, Brian Jenkinson, 2000 The field of forensic computing is rapidly developing due to its increased importance This book covers forensic computing analysis and its capabilities of searching finding and presenting any form of digital document as admissible evidence in a court of law Cyber Forensics Albert J. Marcella, 2021-09-13 Threat actors be they cyber criminals terrorists hacktivists or disgruntled employees are employing sophisticated attack techniques and anti forensics tools to cover their attacks and breach attempts As emerging and hybrid technologies continue to influence daily business decisions the proactive use of cyber forensics to better assess the risks that the exploitation of these technologies pose to enterprise wide operations is rapidly becoming a strategic business objective This book moves beyond the typical technical approach to discussing cyber forensics processes and procedures Instead the authors examine how cyber forensics can be applied to identifying collecting and examining evidential data from emerging and hybrid technologies while taking steps to proactively manage the influence and impact as well as the policy and governance aspects of these technologies and their effect on business operations A world class team of cyber forensics researchers investigators practitioners and law enforcement professionals have come together to provide the reader with insights and recommendations into the proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data This book is an essential guide for both the technical and non technical executive manager attorney auditor and general practitioner who is seeking an authoritative source on how cyber forensics may be applied to both evidential data collection and to proactively managing today s and tomorrow s emerging and hybrid technologies The book will also serve as a primary or supplemental text in both under and post graduate academic programs addressing information operational and emerging technologies cyber forensics networks cloud computing and cybersecurity The Legal Regulation of Cyber Attacks Ioannis Iglezakis, 2020-03-19 This updated edition of a well known comprehensive analysis of the criminalization of cyberattacks adds important new guidance to the legal framework on cybercrime reflecting new legislation technological developments and the changing nature of cybercrime itself The focus is not only on criminal law aspects but also on issues of data protection jurisdiction electronic evidence enforcement and digital forensics It provides a thorough analysis of the legal regulation of attacks against information systems in the European international and comparative law

contexts Among the new and continuing aspects of cybersecurity covered are the following the conflict of cybercrime investigation and prosecution with fundamental rights to privacy and freedom of expression the 2016 Directive on security of network and information systems NIS Directive the General Data Protection Regulation GDPR the role of national computer security incident response teams CSIRTs the European Union EU response to new technologies involving payment instruments including virtual currencies and digital wallets the EU Commission's legislative proposals to enhance cross border gathering of electronic evidence internet service providers role in fighting cybercrime measures combatting identity theft spyware and malware states and legal persons as perpetrators of cybercrime and the security and data breach notification as a compliance and transparency tool Technical definitions case laws and analysis of both substantive law and procedural law contribute to a comprehensive understanding of cybercrime regulation and its current evolution in practice Addressing a topic of growing importance in unprecedented detail this new edition of a much relied upon resource will be welcomed by professionals and authorities dealing with cybercrime including lawyers judges academics security professionals information technology experts and law enforcement agencies

Handbook of Computer Crime

Investigation Eoghan Casey, 2001-10-22 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 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

Investigative Ethics Seumas Miller, Ian A. Gordon, 2014-03-19 *Investigative Ethics* Ethics for Police Detectives and Criminal Investigators presents applied philosophical analyses of the ethical issues that arise for police detectives and other investigators in contemporary society Explores ethical issues relating to investigative independence rights of victims and suspects use of informants entrapment privacy and surveillance undercover operations deception and suspect interviewing Represents the first monograph providing a detailed consideration of ethical issues in police investigations Features authorship by an applied philosopher specializing in police ethics and a former UK senior police officer Combined authorship ensures the text is anchored in actual police practice as well as providing high quality ethical

analysis **Policing Digital Crime** Robin Bryant, 2016-04-22 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 examines 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 , **Handbook of Big Data and IoT Security** Ali Dehghantanha, Kim-Kwang Raymond

Choo, 2019-03-22 This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment prior to reviewing existing data mining solutions and their potential application in big data context and existing authentication and access control for IoT devices An IoT access control scheme and an IoT forensic framework is also presented in this book and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service A distributed file system forensic approach is also presented which is used to guide the investigation of Ceph Minecraft a Massively Multiplayer Online Game and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book A forensic IoT source camera identification algorithm is introduced which uses the camera's sensor pattern noise from the captured image In addition to the IoT access control and forensic frameworks this handbook covers a cyber defense triage process for nine advanced persistent threat APT groups targeting IoT infrastructure namely APT1 Molerats Silent Chollima Shell Crew NetTraveler Project Sauron Copy Kittens Volatile Cedar and Transparent Tribe The characteristics of remote controlled real world Trojans using the Cyber Kill Chain are also examined It introduces a method to leverage different crashes discovered from two fuzzing approaches which can be used to enhance the effectiveness of fuzzers Cloud computing is also often associated with IoT and big data e.g. cloud enabled IoT systems and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book Finally game security solutions are studied and explained how one may circumvent such solutions This handbook targets the security privacy and forensics research community and big data research community including policy makers and government agencies public and private organizations policy makers Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference *Mobile Phone Security and*

Forensics Iosif I. Androulidakis, 2016-03-22 This new edition provides both theoretical and practical background of security and forensics for mobile phones The author discusses confidentiality integrity and availability threats in mobile telephones to provide background for the rest of the book Security and secrets of mobile phones are discussed including software and hardware interception fraud and other malicious techniques used against users The purpose of this book is to raise user awareness in regards to security and privacy threats present in the use of mobile phones while readers will also learn where forensics data reside in the mobile phone and the network and how to conduct a relevant analysis The information on denial of service attacks has been thoroughly updated for the new edition Also a major addition to this edition is a section discussing software defined radio and open source tools for mobile phones **Policing and Technology** Barrie

Sheldon, Paul Wright, 2010-06-14 The rapid development of modern technologies is having profound implications on modern day policing Recent innovations include the proliferation of sophisticated communication and surveillance devices developments in road traffic and crime investigation techniques personal safety equipment the internet and network and computer forensics all of which are accompanied by often complex new legislative and regulative requirements This book ensures that policing students are fully informed and completely up to date with changes and understand the implications and impact that changing technology brings to practice Each chapter includes clear objectives links to the NOS practical and reflective tasks case studies and summaries **Cyber Crime and Cyber Terrorism Investigator's Handbook** Babak

Akhgar, Andrew Staniforth, Francesca Bosco, 2014-07-16 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**

Watermarking Yun-Qing Shi, Hyoung Joong Kim, Fernando Pérez-González, Ching-Nung Yang, 2015-06-24 This book constitutes the thoroughly refereed post conference proceedings of the 13th International Workshop on Digital Forensics and Watermarking IWDW 2014 held in Taipei Taiwan during October 2014 The 32 full and 14 poster papers presented together with 1 keynote speech were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on forensics watermarking reversible data hiding visual cryptography and steganography and steganalysis

Practical Forensic Imaging Bruce Nikkel, 2016-09-01 Forensic image acquisition is an important part of postmortem incident response and evidence collection Digital forensic investigators acquire preserve and manage digital evidence to support civil and criminal cases examine organizational policy violations resolve disputes and analyze cyber attacks Practical Forensic Imaging takes a detailed look at how to secure and manage digital evidence using Linux based command line tools This essential guide walks you through the entire forensic acquisition process and covers a wide range of practical scenarios and situations related to the imaging of storage media You ll learn how to Perform forensic imaging of magnetic hard disks SSDs and flash drives optical discs magnetic tapes and legacy technologies Protect attached evidence media from accidental modification Manage large forensic image files storage capacity image format conversion compression splitting duplication secure transfer and storage and secure disposal Preserve and verify evidence integrity with cryptographic and piecewise hashing public key signatures and RFC 3161 timestamping Work with newer drive and interface technologies like NVME SATA Express 4K native sector drives SSHDs SAS UASP USB3x and Thunderbolt Manage drive security such as ATA passwords encrypted thumb drives Opal self encrypting drives OS encrypted drives using BitLocker FileVault and TrueCrypt and others Acquire usable images from more complex or challenging situations such as RAID systems virtual machine images and damaged media With its unique focus on digital forensic acquisition and evidence preservation Practical Forensic Imaging is a valuable resource for experienced digital forensic investigators wanting to advance their Linux skills and experienced Linux administrators wanting to learn digital forensics This is a must have reference for every digital forensics lab

Blockchain and Clinical Trial Hamid Jahankhani, Stefan Kendzierskyj, Arshad Jamal, Gregory Epiphaniou, Haider Al-Khateeb, 2019-04-08 This book aims to highlight the gaps and the transparency issues in the clinical research and trials processes and how there is a lack of information flowing back to researchers and patients involved in those trials Lack of data transparency is an underlying theme within the clinical research world and causes issues of corruption fraud errors and a problem of reproducibility Blockchain can prove to be a method to ensure a much more joined up and integrated approach to data sharing and improving patient outcomes Surveys undertaken by creditable organisations in the healthcare industry are analysed in this book that show strong support for using blockchain technology regarding strengthening data security interoperability and a range of beneficial use cases where mostly all respondents of the surveys believe blockchain will be important for the future of the healthcare industry Another aspect considered in the book is the coming surge of healthcare

wearables using Internet of Things IoT and the prediction that the current capacity of centralised networks will not cope with the demands of data storage The benefits are great for clinical research but will add more pressure to the transparency of clinical trials and how this is managed unless a secure mechanism like blockchain is used **Android Forensics** Andrew Hoog,2011-06-15 Android Forensics covers an open source mobile device platform based on the Linux 2.6 kernel and managed by the Open Handset Alliance This book provides a thorough review of the Android platform including supported hardware devices the structure of the Android development project and implementation of core services wireless communication data storage and other low level functions Security and Organization within IoT and Smart Cities Kayhan Ghafoor, Kevin Curran, Linghe Kong, Ali Safa Sadiq, 2020-12-30 This book aims to provide the latest research developments and results in the domain of AI techniques for smart cyber ecosystems It presents a holistic insight into AI enabled theoretic approaches and methodology in IoT networking security analytics using AI tools and network automation which ultimately enable intelligent cyber space This book will be a valuable resource for students researchers engineers and policy makers working in various areas related to cybersecurity and privacy for Smart Cities This book includes chapters titled An Overview of the Artificial Intelligence Evolution and Its Fundamental Concepts and Their Relationship with IoT Security Smart City Evolution and Fundamental Concepts Advances in AI Based Security for Internet of Things in Wireless Virtualization Environment A Conceptual Model for Optimal Resource Sharing of Networked Microgrids Focusing Uncertainty Paving Path to Eco friendly Smart Cities A Novel Framework for a Cyber Secure Smart City Contemplating Security Challenges and Threats for Smart Cities Self Monitoring Obfuscated IoT Network Introduction to Side Channel Attacks and Investigation of Power Analysis and Fault Injection Attack Techniques Collaborative Digital Forensic Investigations Model for Law Enforcement Oman as a Case Study Understanding Security Requirements and Challenges in the Industrial Internet of Things A Review 5G Security and the Internet of Things The Problem of Deepfake Videos and How to Counteract Them in Smart Cities The Rise of Ransomware Aided by Vulnerable IoT Devices Security Issues in Self Driving Cars within Smart Cities and Trust Aware Crowd Associated Network Based Approach for Optimal Waste Management in Smart Cities This book provides state of the art research results and discusses current issues challenges solutions and recent trends related to security and organization within IoT and Smart Cities We expect this book to be of significant importance not only to researchers and practitioners in academia government agencies and industries but also for policy makers and system managers We anticipate this book to be a valuable resource for all those working in this new and exciting area and a must have for all university libraries A Blueprint for Implementing Best Practice Procedures in a Digital Forensic Laboratory David Lilburn Watson, Andrew Jones, 2023-11-09 Digital Forensic Processing and Procedures Meeting the Requirements of ISO 17020 ISO 17025 ISO 27001 and Best Practice Requirements Second Edition provides a one stop shop for a set of procedures that meet international best practices and standards for handling digital evidence during its complete lifecycle

The book includes procedures forms and software providing anyone who handles digital evidence with a guide to proper procedures throughout chain of custody from incident response straight through to analysis in the lab This book addresses the whole lifecycle of digital evidence Provides a step by step guide on designing building and using a digital forensic lab Addresses all recent developments in the field Includes international standards and best practices

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