

# Android Forensic Capability and Evaluation of Extraction Tools

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of the requirement of Edinburgh Napier University for the Degree of  
Master of Science in Advanced Security & Digital Forensics

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# Android Forensic Capability And Evaluation Of Extraction Tools

**Igor Mikhaylov**



## **Android Forensic Capability And Evaluation Of Extraction Tools:**

**The Future of Computing: Ubiquitous Applications and Technologies** Neha Kishore, Pankaj Nanglia, Shilpa Gupta, Ashutosh Kumar Dubey, 2024-11-20 The Future of Computing Ubiquitous Applications and Technologies explores the transformative power of ubiquitous computing across diverse fields from healthcare and smart grids to home automation and digital forensics Ubiquitous computing which seamlessly integrates computing into everyday life is reshaping industries and addressing significant challenges such as data security digital payments and IoT optimization This book provides expert insights and practical approaches covering topics such as automated medical imaging federated cloud assessments smart grid security and AI driven control systems Key Features Foundational and advanced concepts of ubiquitous computing across multiple industries Security structures in IoT AI applications and data privacy Real world applications including healthcare automation smart homes and digital forensics Case studies on emerging trends in IoT AIoT and smart grid security

**Ethical and Social Issues in the Information Age** Joseph Migga Kizza, 2023-04-17 This textbook examines the ethical social and policy challenges arising from our rapidly and continuously evolving computing technology ranging from the Internet over to the cross platforms consisting of ubiquitous portable and wearable devices to the eagerly anticipated metaverse and how we can responsibly access and use these spaces The text emphasizes the need for a strong ethical framework for all applications of computer science and engineering in our professional and personal life This comprehensive seventh edition features thoroughly revised chapters with new and updated content hardened by the bedrock ethical and moral values Because of the rapidly changing computing and telecommunication ecosystem a new chapter on Ethics and Social Responsibility in the Metaverse has been added The interface between our current universe and the evolving metaverse presents a security quagmire The discussion throughout the book is candid and intended to ignite students interest and participation in class discussions and beyond Topics and features Establishes a philosophical framework and analytical tools for discussing moral theories and problems in ethical relativism Offers pertinent discussions on privacy surveillance employee monitoring biometrics civil liberties harassment the digital divide and discrimination Discusses the security and ethical quagmire in the platforms of the developing metaverse Provides exercises objectives and issues for discussion with every chapter Examines the ethical cultural and economic realities of mobile telecommunications computer social network ecosystems and virtualization technology Reviews issues of property rights responsibility and accountability relating to information technology and software Explores the evolution of electronic crime network security and computer forensics Introduces the new frontiers of ethics virtual reality artificial intelligence and the Internet This extensive textbook reference addresses the latest curricula requirements for understanding the cultural social legal and ethical issues in computer science and related fields and offers invaluable advice for industry professionals wishing to put such principles into practice

*AI & ML - Frontiers in Cross Disciplinary Applications & Case Studies* Rajagopal

Sridaran,Sajja Priti,2026-04-03 This open access volume constitutes the refereed proceedings of the First International Workshop AI FCDAC 2025 held in Rajkot Gujarat India on September 11 2025 The revised 11 full papers and 3 short papers were carefully reviewed and selected from 64 submissions The workshop brings together cutting edge contributions from academia and industry that showcase innovative applications and methodologies in artificial intelligence and machine learning **Proceedings of the International Conference on Information Technology & Systems (ICITS 2018)**

Álvaro Rocha,Teresa Guarda,2018-01-04 This book includes a selection of articles from the 2018 International Conference on Information Technology organizational models and information systems software and systems modeling software systems architectures applications and tools multimedia systems and applications computer networks mobility and pervasive systems intelligent and decision support systems big data analytics and applications human computer interaction ethics computers health informatics and information technologies in education Information Technology - New Generations Shahram

Latifi,2018-04-12 This volume presents a collection of peer reviewed scientific articles from the 15th International Conference on Information Technology New Generations held at Las Vegas The collection addresses critical areas of Machine Learning Networking and Wireless Communications Cybersecurity Data Mining Software Engineering High Performance Computing Architectures Computer Vision Health Bioinformatics and Education *Security Analytics* Mehak

Khurana,Shilpa Mahajan,2022-06-24 The book gives a comprehensive overview of security issues in cyber physical systems by examining and analyzing the vulnerabilities It also brings current understanding of common web vulnerabilities and its analysis while maintaining awareness and knowledge of contemporary standards practices procedures and methods of Open Web Application Security Project This book is a medium to funnel creative energy and develop new skills of hacking and analysis of security and expedites the learning of the basics of investigating crimes including intrusion from the outside and damaging practices from the inside how criminals apply across devices networks and the internet at large and analysis of security data Features Helps to develop an understanding of how to acquire prepare visualize security data Unfolds the unventured sides of the cyber security analytics and helps spread awareness of the new technological boons Focuses on the analysis of latest development challenges ways for detection and mitigation of attacks advanced technologies and methodologies in this area Designs analytical models to help detect malicious behaviour The book provides a complete view of data analytics to the readers which include cyber security issues analysis threats vulnerabilities novel ideas analysis of latest techniques and technology mitigation of threats and attacks along with demonstration of practical applications and is suitable for a wide ranging audience from graduates to professionals practitioners and researchers **Mobile Forensics Cookbook**

Igor Mikhaylov,2017-12-15 Discover the tools and techniques of mobile forensic investigations and make sure your mobile autopsy doesn't miss a thing all through powerful practical recipes About This Book Acquire in depth knowledge of mobile device acquisition using modern forensic tools Understand the importance of clouds for mobile forensics and learn

how to extract data from them Discover advanced data extraction techniques that will help you to solve forensic tasks and challenges Who This Book Is For This book is aimed at practicing digital forensics analysts and information security professionals familiar with performing basic forensic investigations on mobile device operating systems namely Android iOS Windows and Blackberry It s also for those who need to broaden their skillset by adding more data extraction and recovery techniques What You Will Learn Retrieve mobile data using modern forensic tools Work with Oxygen Forensics for Android devices acquisition Perform a deep dive analysis of iOS Android Windows and BlackBerry Phone file systems Understand the importance of cloud in mobile forensics and extract data from the cloud using different tools Learn the application of SQLite and Plists Forensics and parse data with digital forensics tools Perform forensic investigation on iOS Android Windows and BlackBerry mobile devices Extract data both from working and damaged mobile devices using JTAG and Chip off Techniques In Detail Considering the emerging use of mobile phones there is a growing need for mobile forensics Mobile forensics focuses specifically on performing forensic examinations of mobile devices which involves extracting recovering and analyzing data for the purposes of information security criminal and civil investigations and internal investigations Mobile Forensics Cookbook starts by explaining SIM cards acquisition and analysis using modern forensics tools You will discover the different software solutions that enable digital forensic examiners to quickly and easily acquire forensic images You will also learn about forensics analysis and acquisition on Android iOS Windows Mobile and BlackBerry devices Next you will understand the importance of cloud computing in the world of mobile forensics and understand different techniques available to extract data from the cloud Going through the fundamentals of SQLite and Plists Forensics you will learn how to extract forensic artifacts from these sources with appropriate tools By the end of this book you will be well versed with the advanced mobile forensics techniques that will help you perform the complete forensic acquisition and analysis of user data stored in different devices Style and approach This book delivers a series of extra techniques and methods for extracting and analyzing data from your Android iOS Windows and Blackberry devices Using practical recipes you will be introduced to a lot of modern forensics tools for performing effective mobile forensics **Mobile Forensics Cookbook** Igor

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Practical Mobile Forensics Rohit Tamma,Oleg Skulkin,Heather Mahalik,Satish Bommisetty,2020-04-09 Become well versed with forensics for the Android iOS and Windows 10 mobile platforms by learning essential techniques and exploring real life scenarios Key FeaturesApply advanced forensic techniques to recover deleted data from mobile devicesRetrieve and analyze data stored not only on mobile devices but also on the cloud and other connected mediumsUse the power of mobile forensics on popular mobile platforms by exploring different tips tricks and techniquesBook Description Mobile phone forensics is the science of retrieving data from a mobile phone under forensically sound conditions This updated fourth edition of Practical Mobile Forensics delves into the concepts of mobile forensics and its importance in today s world The book focuses on teaching you the latest forensic techniques to investigate mobile devices across various mobile platforms You will learn forensic techniques for multiple OS versions including iOS 11 to iOS 13 Android 8 to Android 10 and Windows 10 The book then takes you through the latest open source and commercial mobile forensic tools enabling you to analyze and retrieve data effectively From inspecting the device and retrieving data from the cloud through to successfully documenting reports of your investigations you ll explore new techniques while building on your practical knowledge Toward the end you will understand the reverse engineering of applications and ways to identify malware Finally the book guides you through parsing popular third party applications including Facebook and WhatsApp By the end of this book you will be proficient in various mobile forensic techniques to

analyze and extract data from mobile devices with the help of open source solutions What you will learn Discover new data extraction data recovery and reverse engineering techniques in mobile forensics Understand iOS Windows and Android security mechanisms Identify sensitive files on every mobile platform Extract data from iOS Android and Windows platforms Understand malware analysis reverse engineering and data analysis of mobile devices Explore various data recovery techniques on all three mobile platforms Who this book is for This book is for forensic examiners with basic experience in mobile forensics or open source solutions for mobile forensics Computer security professionals researchers or anyone looking to gain a deeper understanding of mobile internals will also find this book useful Some understanding of digital forensic practices will be helpful to grasp the concepts covered in the book more effectively Artificial Intelligence and Blockchain in Digital Forensics P. Karthikeyan, Hari Mohan Pande, Velliangiri Sarveshwaran, 2023-02-06 Digital forensics is the science of detecting evidence from digital media like a computer smartphone server or network It provides the forensic team with the most beneficial methods to solve confused digital related cases AI and blockchain can be applied to solve online predatory chat cases and photo forensics cases provide network service evidence custody of digital files in forensic medicine and identify roots of data scavenging The increased use of PCs and extensive use of internet access have meant easy availability of hacking tools Over the past two decades improvements in the information technology landscape have made the collection preservation and analysis of digital evidence extremely important The traditional tools for solving cybercrimes and preparing court cases are making investigations difficult We can use AI and blockchain design frameworks to make the digital forensic process efficient and straightforward AI features help determine the contents of a picture detect spam email messages and recognize swatches of hard drives that could contain suspicious files Blockchain based lawful evidence management schemes can supervise the entire evidence flow of all of the court data This book provides a wide ranging overview of how AI and blockchain can be used to solve problems in digital forensics using advanced tools and applications available on the market

**Mastering Mobile Forensics** Soufiane Tahiri, 2016-05-30 Develop the capacity to dig deeper into mobile device data acquisition About This Book A mastering guide to help you overcome the roadblocks you face when dealing with mobile forensics Excel at the art of extracting data recovering deleted data bypassing screen locks and much more Get best practices to how to collect and analyze mobile device data and accurately document your investigations Who This Book Is For The book is for mobile forensics professionals who have experience in handling forensic tools and methods This book is designed for skilled digital forensic examiners mobile forensic investigators and law enforcement officers What You Will Learn Understand the mobile forensics process model and get guidelines on mobile device forensics Acquire in depth knowledge about smartphone acquisition and acquisition methods Gain a solid understanding of the architecture of operating systems file formats and mobile phone internal memory Explore the topics of of mobile security data leak and evidence recovery Dive into advanced topics such as GPS analysis file carving encryption encoding unpacking and decompiling mobile

application processes In Detail Mobile forensics presents a real challenge to the forensic community due to the fast and unstoppable changes in technology This book aims to provide the forensic community an in depth insight into mobile forensic techniques when it comes to deal with recent smartphones operating systems Starting with a brief overview of forensic strategies and investigation procedures you will understand the concepts of file carving GPS analysis and string analyzing You will also see the difference between encryption encoding and hashing methods and get to grips with the fundamentals of reverse code engineering Next the book will walk you through the iOS Android and Windows Phone architectures and filesystem followed by showing you various forensic approaches and data gathering techniques You will also explore advanced forensic techniques and find out how to deal with third applications using case studies The book will help you master data acquisition on Windows Phone 8 By the end of this book you will be acquainted with best practices and the different models used in mobile forensics Style and approach The book is a comprehensive guide that will help the IT forensics community to go more in depth into the investigation process and mobile devices take over

Mobile Forensic Investigations: A Guide to Evidence Collection, Analysis, and Presentation, Second Edition Lee Reiber,2018-12-06 Master the tools and techniques of mobile forensic investigations Conduct mobile forensic investigations that are legal ethical and highly effective using the detailed information contained in this practical guide Mobile Forensic Investigations A Guide to Evidence Collection Analysis and Presentation Second Edition fully explains the latest tools and methods along with features examples and real world case studies Find out how to assemble a mobile forensics lab collect prosecutable evidence uncover hidden files and lock down the chain of custody This comprehensive resource shows not only how to collect and analyze mobile device data but also how to accurately document your investigations to deliver court ready documents Legally seize mobile devices USB drives SD cards and SIM cards Uncover sensitive data through both physical and logical techniques Properly package document transport and store evidence Work with free open source and commercial forensic software Perform a deep dive analysis of iOS Android and Windows Phone file systems Extract evidence from application cache and user storage files Extract and analyze data from IoT devices drones wearables and infotainment systems Build SQLite queries and Python scripts for mobile device file interrogation Prepare reports that will hold up to judicial and defense scrutiny

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