

1. Record Nr.	UNINA9911049183403321
Autore	Sheth R. K (Ravi K.)
Titolo	Android and IOS Mobile Forensics : Leveraging Blockchain, Machine Learning, and Deep Learning for Digital Investigations // by Ravi Sheth, Keshav Kaushik, Chandresh Parekha, Narendrakumar Chayal
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2025
ISBN	979-88-6881-748-9
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (425 pages)
Collana	Professional and Applied Computing Series
Disciplina	363.250285
Soggetti	Digital forensic science Mobile device forensics Blockchains (Databases) Machine learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Chapter 1: Introduction to Mobile Forensics -- Chapter 2: Android Forensics Fundamentals -- Chapter 3: iOS Forensics Fundamentals -- Chapter 4: Leveraging Blockchain for Mobile Forensics -- Chapter 5: Investigating Mobile Banking and Financial Applications -- Chapter 6 Examination of social media and Messaging Applications and Cloud Forensics -- Chapter 7: Location-based Data Analysis and Geolocation Artifacts -- Chapter 8: Mobile Network Forensics -- Chapter 9: Mobile Browser Forensics -- Chapter 10: Leveraging Machine Learning for Digital Investigations -- Chapter 11: Machine Learning Applications in Mobile Forensics -- Chapter 12: Deep Learning Techniques for Mobile Forensics -- Chapter 13: Privacy and Security Considerations in Mobile Forensics -- Chapter 14: Future Trends and Emerging Technologies in Mobile Forensics -- Chapter 15: Ethical and Legal Frameworks in Mobile Forensics.
Sommario/riassunto	Explore methods, resources, and approaches for gathering, evaluating, and interpreting data from mobile devices—including iOS and Android models. This book reveals at how mobile forensics and cutting-edge technologies like deep learning, machine learning, and blockchain interact, providing insights into how these developments are changing

the industry. This book attempts to fill the knowledge gap between theory and practice by providing an in-depth analysis of both fundamental ideas and recent advances. It is an invaluable tool for anyone who wants to advance their knowledge of mobile forensics and remain ahead of the constantly changing landscape of digital investigations. The book presents several novel and cutting-edge approaches that have the potential to completely transform the area of mobile forensics, such the use of deep learning and machine learning techniques. Additionally, it offers a thorough examination of blockchain data in relation to mobile devices, a subject that is becoming more and more important. Future topics like 5G network forensics and the forensic applications of AR and VR technologies are included to prepare you for developments on the horizon. Android and IOS Mobile Forensics takes a comprehensive approach to ensure you gain the information and abilities needed to handle the challenges presented by mobile forensics. You will: Perform forensic analysis on Android and iOS devices, social media accounts, mobile banking, financial applications, mobile networks, and Geo location artifacts Apply AI, machine learning, deep learning and blockchain in mobile forensics. Gather and interpret data from real-world cases. Ensure privacy, security, and legal compliance in investigations. Prepare for 5G, AR, and VR forensic challenges.
