

1. Record Nr.	UNINA9910299351603321
Autore	Lin Xiaodong
Titolo	Introductory Computer Forensics : A Hands-on Practical Approach // by Xiaodong Lin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-030-00581-X
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXIII, 577 p. 459 illus., 347 illus. in color.)
Disciplina	363.252 364.168
Soggetti	Data protection Forensic science Computer crimes Computer security Multimedia information systems Security Forensic Science Cybercrime Systems and Data Security Multimedia Information Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Introduction to Computer Forensics -- 2 Introduction to Computer Organization -- 3 Building a Forensics Workstation -- 4 Volume Analysis -- 5 Examining FAT File System -- 6 Deleted File Recovery in FAT -- 7 Examining NTFS File System -- 8 Deleted File Recovery in NTFS -- 9 File Carving -- 10 File Signature Searching Forensics -- 11 Keyword Forensics -- 12 Timeline Analysis -- 13 Data Hiding and Detection -- 14 Log Analysis -- 15 Android Forensics -- 16 GPS Forensics -- 17 SIM Cards Forensics -- 18 Introductory Malware Analysis -- 19 Ransomware Analysis -- 20 Image Forgery Detection -- 21 Steganography and Steganalysis.
Sommario/riassunto	This textbook provides an introduction to digital forensics, a rapidly

evolving field for solving crimes. Beginning with the basic concepts of computer forensics, each of the book's 21 chapters focuses on a particular forensic topic composed of two parts: background knowledge and hands-on experience through practice exercises. Each theoretical or background section concludes with a series of review questions, which are prepared to test students' understanding of the materials, while the practice exercises are intended to afford students the opportunity to apply the concepts introduced in the section on background knowledge. This experience-oriented textbook is meant to assist students in gaining a better understanding of digital forensics through hands-on practice in collecting and preserving digital evidence by completing various exercises. With 20 student-directed, inquiry-based practice exercises, students will better understand digital forensic concepts and learn digital forensic investigation techniques. This textbook is intended for upper undergraduate and graduate-level students who are taking digital-forensic related courses or working in digital forensics research. It can also be used by digital forensics practitioners, IT security analysts, and security engineers working in the IT security industry, particular IT professionals responsible for digital investigation and incident handling or researchers working in these related fields as a reference book. .
