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Nota di contenuto	Introduction to the cloud and fundamental security and privacy issues of the cloud / Hassan Takabi, Mohammad GhasemiGol -- Infrastructure cloud security / Mohammad GhasemiGol -- Confidentiality of data in the cloud : conflicts between security and cost / Nathalie Baracaldo, Joseph Glider -- Access control in cloud IaaS / Yun Zhang, Ram Krishnan, Farhan Patwa, Ravi Sandhu -- Cloud security and privacy management / Patrick Kamongi -- Hacking and countermeasures in the cloud / Farzaneh Abazari, Hassan Takabi, Morteza Analoui -- Risk management and disaster recovery in the cloud / Saman Zonouz -- Cloud auditing and compliance / Paolina Centonze -- Security as a service (SaaS) in the cloud / Saman Taghavi Zargar, Hassan Takabi, Jay Iyer -- Cloud forensics : model, challenges and approaches / Lei Chen, Nhien-An Le-Khac, Sebastian Schlepphorst, Lanchuan Xu -- Cyberterrorism in the cloud : through a glass darkly / Barry Cartwright, George R. S. Weir, Richard Frank -- Digital forensic process and model in the cloud / Nhien-An Le-Khac, James Plunkett, Tahar Kechadi, Lei Chen -- Data acquisition in the cloud / Nhien-An Le-Khac, Michel Mollema, Robert Craig, Steven Ryder, Lei Chen -- Digital evidence management, presentation, and court preparation in the cloud : a forensics readiness approach / Lucia De Marco, Nhien-An Le-Khac, Tahar Kechadi -- Analysis of cloud digital evidence / Irfan Ahmed -- Forensic-as-a-service (FaaS) in the cloud state-of-the-art / Avinash

Srinivasan.

Sommario/riassunto	In a unique and systematic way, this book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work. However, with the continuous growth of cloud computing and related services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses security and privacy of the cloud, as well as the digital forensics of cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in the Cloud covers cloud infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures; risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud forensics – model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS). Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those focused upon security and implementation, and incident management Logical, well-structured, and organized to facilitate comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It can also serve as a good reference book for security professionals, digital forensics practitioners and cloud service providers.