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Nota di contenuto	Foreword xiii -- Preface xv -- List of Contributors xix -- Part I Introduction to Blockchain 1 -- 1 Introduction 3 /Sachin S. Shetty, Laurent Njilla, and Charles A. Kamhoua -- 1.1 Blockchain Overview 3 -- 1.1.1 Blockchain Building Blocks 5 -- 1.1.2 Blockchain Commercial Use Cases 6 -- 1.1.3 Blockchain Military Cyber Operations Use Cases 11 -- 1.1.4 Blockchain Challenges 13 -- 1.2 Overview of the Book 16 -- 1.2.1 Chapter 2: Distributed Consensus Protocols and Algorithms 16 -- 1.2.2 Chapter 3: Overview of Attack Surfaces in Blockchain 17 -- 1.2.3 Chapter 4: Data Provenance in Cloud Storage with Blockchain 17 -- 1.2.4 Chapter 5: Blockchain-based Solution to Automotive Security and Privacy 18 -- 1.2.5 Chapter 6: Blockchain-based Dynamic Key Management for IoT-Transportation Security Protection 19 -- 1.2.6 Chapter 7: Blockchain-enabled Information Sharing Framework for Cybersecurity 19 -- 1.2.7 Chapter 8: Blockcloud Security Analysis 20 -- 1.2.8 Chapter 9: Security and Privacy of Permissioned and Permissionless Blockchain 20 -- 1.2.9 Chapter 10: Shocking Public Blockchains’ Memory with Unconfirmed Transactions-New DDoS Attacks and Countermeasures 21 -- 1.2.10 Chapter 11: Preventing Digital Currency Miners From Launching Attacks Against Mining Pools

Preferences 245 -- 11.5.6 Colluding Miners’ Utilities 245 -- 11.6 Evaluation of Our Model Using Game-theoretical Analyses 246 -- 11.7 Concluding Remarks 248 -- Acknowledgment 249 -- References 249 -- Part IV Blockchain Implementation 253 -- 12 Private Blockchain Configurations for Improved IoT Security 255 /Adriaan Larmuseau and Devu Manikantan Shila -- 12.1 Introduction 255 -- 12.2 Blockchain-enabled Gateway 257 -- 12.2.1 Advantages 257 -- 12.2.2 Limitations 258 -- 12.2.3 Private Ethereum Gateways for Access Control 259 -- 12.2.4 Evaluation 262 -- 12.3 Blockchain-enabled Smart End Devices 263 -- 12.3.1 Advantages 263 -- 12.3.2 Limitations 264 -- 12.3.3 Private Hyperledger Blockchain-enabled Smart Sensor Devices 264 -- 12.3.4 Evaluation 269 -- 12.4 Related Work 270 -- 12.5 Conclusion 271 -- References 271 -- 13 Blockchain Evaluation Platform 275 /Peter Foytik and Sachin S. Shetty -- 13.1 Introduction 275 -- 13.1.1 Architecture 276 -- 13.1.2 Distributed Ledger 276 -- 13.1.3 Participating Nodes 277 -- 13.1.4 Communication 277 -- 13.1.5 Consensus 278 -- 13.2 Hyperledger Fabric 279 -- 13.2.1 Node Types 279 -- 13.2.2 Docker 280 -- 13.2.3 Hyperledger Fabric Example Exercise 281 -- 13.2.4 Running the First Network 281 -- 13.2.5 Running the Kafka Network 286 -- 13.3 Measures of Performance 291 -- 13.3.1 Performance Metrics With the Proof-of-Stake Simulation 293 -- 13.3.2 Performance Measures With the Hyperledger Fabric Example 296 -- 13.4 Simple Blockchain Simulation 300.
13.5 Blockchain Simulation Introduction 303 -- 13.5.1 Methodology 304 -- 13.5.2 Simulation Integration With Live Blockchain 304 -- 13.5.3 Simulation Integration With Simulated Blockchain 306 -- 13.5.4 Verification and Validation 306 -- 13.5.5 Example 307 -- 13.6 Conclusion and Future Work 309 -- References 310 -- 14 Summary and Future Work 311 /Sachin S. Shetty, Laurent Njilla, and Charles A. Kamhoua -- 14.1 Introduction 311 -- 14.2 Blockchain and Cloud Security 312 -- 14.3 Blockchain and IoT Security 312 -- 14.4 Blockchain Security and Privacy 314 -- 14.5 Experimental Testbed and Performance Evaluation 316 -- 14.6 The Future 316 -- Index 319.

Sommario/riassunto

Blockchain for Distributed Systems Security contains a description of the properties that underpin the formal foundations of Blockchain technologies and explores the practical issues for deployment in cloud and Internet of Things "IoT" platforms. The authors - noted experts in the field - present security and privacy issues that must be addressed for Blockchain technologies to be adopted for civilian and military domains. The book covers a range of topics including data provenance in cloud storage, secure IoT models, auditing architecture, and empirical validation of permissioned Blockchain platforms. The book's security and privacy analysis helps with an understanding of the basics of Blockchain and it explores the quantifying impact of the new attack surfaces introduced by Blockchain technologies and platforms. In addition, the book contains relevant and current updates on the topic. This important resource: . Provides an overview of Blockchain-based secure data management and storage for cloud and IoT. Covers cutting-edge research findings on topics including invariant-based supply chain protection, information sharing framework, and trust worthy information federation. Addresses security and privacy concerns in Blockchain in key areas, such as preventing digital currency miners from launching attacks against mining pools, empirical analysis of the attack surface of Blockchain, and more Written for researchers and experts in computer science and engineering, Blockchain for Distributed Systems Security contains the most recent information and academic research to provide an understanding of the application of Blockchain technology.