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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- List of Contributors -- Preface -- Abbreviations -- Chapter 1 What is Blockchain Radio Access Network? -- 1.1 Introduction -- 1.2 What is BRAN -- 1.2.1 BRAN Framework -- 1.2.2 Consensus Mechanism -- 1.2.3 Implementation -- 1.3 Mining Model -- 1.3.1 HashBased Mining -- 1.3.2 Modeling of Hash Trials -- 1.3.3 Threat Model -- 1.4 BRAN Queuing Model -- 1.5 Latency Analysis of BRAN -- 1.5.1 SteadyState Analysis -- 1.5.2 Average Service Latency -- 1.6 Security Considerations -- 1.6.1 Alternative History Attack -- 1.6.2 Probability of a Successful Attack -- 1.7 LatencySecurity Tradeoff -- 1.8 Conclusions and Future Works -- 1.8.1 Network Effect and Congest Effect -- 1.8.2 Chicken and Eggs -- 1.8.3 Decentralization and Centralization -- 1.8.4 Beyond Bitcoin Blockchain -- References -- Chapter 2 Consensus Algorithm Analysis in Blockchain: PoW and Raft -- 2.1 Introduction -- 2.2 Mining Strategy Analysis for the PoW ConsensusBased Blockchain -- 2.2.1 Blockchain Preliminaries -- 2.2.2 Proof of Work and Mining -- 2.2.3 Honest Mining Strategy -- 2.2.4 PoW Blockchain Mining Model -- 2.2.4.1 State --

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