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Nota di contenuto	Cover -- Title -- Copyright -- End User License Agreement -- Contents -- Preface -- List of Contributors -- Blockchain for IoT Security and Privacy: Challenges, Application Areas and Implementation Issues -- Chaitali Choudhary1,* , Inder Singh1,* and Mohammad Shafiq2 -- INTRODUCTION -- Blockchain and its Key Concepts -- Working of Blockchain -- Blockchain Structure and its Operations -- Algorithms and Techniques -- Trust Essentials and Consensus Protocols -- IOT Security -- Ongoing Researches -- IoT Security using Blockchain -- IoT Security using Fog Computing -- IoT Security using Machine Learning -- IoT Security using Cryptography/Steganography -- Blockchain as Key to IoT Security -- Blockchain IoT Security: Implementation Challenges -- CONCLUSION -- CONSENT FOR PUBLICATION -- CONFLICT OF INTEREST -- ACKNOWLEDGEMENT -- REFERENCES -- Distributed Ledger Technology and its Potential Applications - Financial Sector -- Sachin Sharma1,* and Kamal Kumar2 -- INTRODUCTION -- RECENT WORK IN DLT -- Early Adopters -- Followers -- New Entrants (2019) -- DLT FEATURES AND PROPERTIES -- DLT Based Blockchain in Digital Currencies -- DLT Features -- Distributed Property of the Ledger -- Validation using "Consensus Mechanism" -- Digital Signatures and Hash Functions -- DLT ADVANTAGES -- No Middleman and Decentralized in Nature -- Improved Auditability and Enhanced Transparency -- Perpetual and

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Sommario/riassunto

Blockchain technology is part of the 4th industrial revolution of Industry and has generated a lot of potential for stakeholders and end users. From Bitcoin and Ethereum, to the third-generation of blockchains, the technology has transformed the digital landscape in many industrial sectors. Cross-Industry Blockchain Technology: Opportunities and Challenges in Industry 4.0 explores the role of blockchains in industry 4.0 across multiple industries. It covers the problems and new frontiers encountered by engineers and professionals for commercial and technical use. The range of Blockchain applications covered in the book include finance, big data, health industry, hydroponics, and vehicle ad hoc networks. General readers and industry professionals interested in Blockchain technology and industry 4.0 will find interesting information about current tech trends in this space.
