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| 1. Record Nr.           | UNISA990000854620203316   |
| Autore                  | REYNOLDS, Ernest Edwin  |
| Titolo                  | Il processo di Tommaso Moro / Ernest Edwin Reynolds ; premessa di Francesco Cossiga ; introduzione di Luigi Firpo ; traduzione e note di Marialisa Bertagnoni |
| Pubbl/distr/stampa      | Roma, : Salerno, 1985   |
| ISBN                    | 88-85026-68-0   |
| Descrizione fisica      | 269 p : 16 p. di tav., ill. ; 24 cm   |
| Collana                 | Profili ; 4   |
| Disciplina              | 942.052092  |
| Soggetti                | Tommaso : Moro <santo>  |
| Collocazione            | X.2.B. 1266(X C COLL. 36/4)   |
| Lingua di pubblicazione | Italiano  |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |

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|-------------------------|---|
| 2. Record Nr.           | UNINA9910777099103321   |
| Titolo                  | Cross-Industry Blockchain Technology : Opportunities and Challenges in Industry 4. 0 // edited by Rajesh Singh, Anita Gehlot, and Bhavesh Dharmani  |
| Pubbl/distr/stampa      | Singapore : , : Bentham Books, , [2022]<br>©2022  |
| ISBN                    | 981-5051-45-8   |
| Edizione                | [First edition.]  |
| Descrizione fisica      | 1 online resource (137 pages)   |
| Disciplina              | 005.74  |
| Soggetti                | Blockchains (Databases) - Industrial applications   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| 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 |

Testable -- Speed and Efficiency Gain -- Reducing Cost -- Improved cybersecurity Elasticity -- DLT RISKS AND CHALLENGES -- Technical Issues -- Immature Technology -- Transaction Response Time and Scalability -- Integration and Compatibility -- Legal and Regulatory Issues -- Industry Standards and Regulatory Evaluation -- Jurisdiction and Ownership - Legal Clarity -- Customer Due Diligence and Know-Your-Customer -- Dispute Resolution Mechanism -- Privacy. Infrastructure Cost -- DLT APPLICATIONS -- DLT AND FINANCIAL INCLUSION -- CROSS BORDER REMITTANCE AND PAYMENT -- Ripple -- Abra -- Bitpesa -- Bitt -- SMART CONTRACTS -- EXPERIMENT PRACTICES -- Project Jasper -- Phase I -- Phase II -- Phase III -- Project BLOCKBASTER -- Project SALT -- Project UBIN -- Project Stella -- Project Khokha -- Project INTHANON -- SUMMARY -- CONSENT FOR PUBLICATION -- CONFLICT OF INTEREST -- ACKNOWLEDGEMENT -- REFERENCES -- Implementation of Blockchain Technology for Big Data -- Yasir Afaq1, Shaik Vaseem Akram2,\* , Rajesh Singh2 and Mohammad Shafiq3 -- INTRODUCTION -- CATEGORIES OF BLOCKCHAIN -- Generation of Blockchain -- Blockchain 1.0 -- Blockchain 2.0 -- Blockchain 3.0 -- Significance of Blockchain Technology and Decentralization and its Effect -- Security -- Transparency -- Inexpensive -- Transaction Time -- Financial Efficiency -- Protect Business from Frauds -- Applications of Blockchain Technology -- Health Care -- Education -- Public Services -- Cyber Security -- BIG DATA -- Significance of Big Data -- Cost saving -- Time Reduction -- Understand the market Condition -- Control Online Reputation -- Using Big Data Analytics to Boost Customer Acquisition and Retention -- Usage of Big Data Analytics to Solve Problems and Promotional Insights into Advertisers -- Big Data Analytics as a Catalyst of Product Creation and Innovation -- Challenges in Big Data -- Data Mining Techniques for Big Data -- Clustering -- Classification -- Association Mining Rules -- Regression -- Social Network Analysis -- Applications of Big Data -- Healthcare Sector -- Education Sector -- Challenges Concerning the Application of Big Data in Education -- Remote Sensing -- Big Data Analysis Tools and Techniques -- Hadoop -- Spark -- Storm -- Cassandra -- Mongo DB -- Big Data Techniques -- INTEGRATION OF BLOCKCHAIN AND BIG DATA -- Data Integrity. Manage Data Sharing -- Preventing Malicious Activity -- Predictive Analysis -- CONCLUSION -- CONSENT FOR PUBLICATION -- CONFLICT OF INTEREST -- ACKNOWLEDGEMENT -- REFERENCES -- Hydroponics Monitoring System Based on IoT and Blockchain -- Harpreet Singh Bedi1,\* , Raghav Gupta1, Manoj Sindhvani1 and Kamal Kumar Sharma1 -- INTRODUCTION -- DISCUSSION -- Hydroponics -- BLOCKCHAIN SOLUTIONS FOR IOT -- Features -- Blockchain Types -- Public Blockchain -- Private Blockchain -- Consortium Blockchain -- Greenhouse -- Hardware -- Server and Cloud -- WORKING -- CONCLUSION -- CONSENT FOR PUBLICATION -- CONFLICT OF INTEREST -- ACKNOWLEDGEMENTS -- REFERENCES -- Recent Trends in IoT Healthcare-based Blockchain Solutions -- Himanshu Sharma1, Hardik Chaurasia1, Arpit Jain2,\* and Nazir Ahmed1 -- INTRODUCTION -- Healthcare -- Blockchain -- IOT -- Integrated Solutions using BCT and IoT -- BCT and IoT Integrated for Healthcare -- CONCLUSION -- CONSENT FOR PUBLICATION -- CONFLICT OF INTEREST -- ACKNOWLEDGEMENT -- REFERENCES -- Blockchain Technology-based System in Vehicular Ad-hoc Network -- Manoj Sindhvani1, Charanjeet Singh1,\* and Rajeshwar Singh2 -- INTRODUCTION -- ARCHITECTURE OF VANETS -- COMMUNICATION ARCHITECTURE OF VANET -- BLOCKCHAIN MEETS VANET -- TRUST BASED MODELS IN VANET FOR BLOCKCHAIN TECHNOLOGY -- CONCLUSION -- CONSENT FOR

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.

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