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| Titolo                  | Blockchain Technology for IoT Applications // edited by Seok-Won Lee, Irish Singh, Masoud Mohammadian  |
| Pubbl/distr/stampa      | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2021   |
| ISBN                    | 981-334-122-X  |
| Edizione                | [1st ed. 2021.]  |
| Descrizione fisica      | 1 online resource (x, 205 pages) : illustrations   |
| Collana                 | Blockchain Technologies, , 2661-8346   |
| Disciplina              | 005.74   |
| Soggetti                | Cooperating objects (Computer systems)<br>Data protection<br>Business information services<br>Engineering mathematics<br>Engineering - Data processing<br>Telecommunication<br>Big data<br>Cyber-Physical Systems<br>Data and Information Security<br>IT in Business<br>Mathematical and Computational Engineering Applications<br>Communications Engineering, Networks<br>Big Data<br>Objectes cooperants (Sistemes informàtics)<br>Protecció de dades<br>Serveis d'informació<br>Enginyeria<br>Processament de dades<br>Telecomunicació<br>Mineria de dades<br>Llibres electrònics |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |

## Nota di contenuto

1. Requirement Engineering and Its Role in a Blockchain Enabled Internet of Things -- 2. Automata DAO: A Blockchain-based Data Marketplace for Interactive Robot and IoT Data Exchanges Using Ethermint and State Channels -- 3. Hyperledger Architecture for Internet of Things and Supply chain Management -- 4. Can we predict tropical storms? Evidence from artificial intelligence -- 5. A Critical Review on using Blockchain Technology in Education Domain -- 6. A Blockchain-based Decentralized and Autonomous Model to Administer University Examinations -- 7. FaceHub: Facial Recognition Data Management in Blockchain -- 8. Incorporating Transaction Lifecycle Information in Blockchain Process Discovery -- 9. BIoT based Smart Agriculture: Food and Crops Efficiency & Improvement in Supply Chain Cycle -- 10. Hitching Medical IoT Devices to Blockchain for Personal Health Information Management.

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## Sommario/riassunto

This book explores recent advances in the Internet of things (IoT) via advanced technologies and provides an overview of most aspects which are relevant for advance secure, distributed, decentralized blockchain technology in the Internet of things, their applications, and industry IoT. The book provides an in-depth analysis of the step-by-step evolution of IoT to create a change by enhancing the productivity of industries. It introduces how connected things, data, and their communication (data sharing) environment build a transparent, reliable, secure environment for people, processes, systems, and services with the help of blockchain technology.

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