

1. Record Nr.	UNINA9910373897003321
Titolo	Blockchain Technology for Industry 4.0 : Secure, Decentralized, Distributed and Trusted Industry Environment // edited by Rodrigo da Rosa Righi, Antonio Marcos Alberti, Madhusudan Singh
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-1137-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (V, 164 p. 50 illus., 40 illus. in color.)
Collana	Blockchain Technologies, , 2661-8338
Disciplina	005.824
Soggetti	Computer engineering Internet of things Embedded computer systems Data protection Industrial engineering Production engineering Information technology Business—Data processing Electrical engineering Big data Cyber-physical systems, IoT Security Industrial and Production Engineering IT in Business Communications Engineering, Networks Big Data
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. History of Industrial Revolutions: From Homo Sapiens Hunters to Bitcoin Hunters -- 2. Blockchain and Industry 4.0: Overview, Convergence, and Analysis -- 3. Blockchain Technology for Data Management in Industry 4.0 -- 4. Secure Smart Contract Generation based on Petri Nets -- 5. Blockchain for Machine to Machine Interaction

in Industry 4.0 -- 6. Blockchain-based Crowdfunding -- 7. Engineering 4.0: Future with disruptive technologies -- 8. The Opportunities of Blockchain in Health 4.0.

---

**Sommario/riassunto**

This book explores recent advances in blockchain technology and its impact on Industry 4.0 via advanced technologies. It provides an in-depth analysis of the step by step evolution of Industry 4.0 and blockchain technologies for creating the next-generation, secure, decentralized, distributed and trusted industry environment and enhancing the productivity of industries. The book describes how blockchain technology makes the industrial internet (Industry 4.0) a transparent, reliable and secure environment for people, processes, systems, and services, presenting a strong, technological and conceptual framework and roadmap for decision-makers involved in the transformation of any area of industry.

---