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Titolo	Blockchain for cybersecurity in cyber-physical systems // edited by Yassine Maleh, Mamoun Alazab, and Imed Romdhani
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ISBN	3-031-25506-2
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XVI, 274 p. 80 illus., 68 illus. in color.)
Collana	Advances in Information Security, , 2512-2193 ; ; 102
Disciplina	296
Soggetti	Blockchains (Databases) Computer security
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter. 1. Cryptocurrency wallets: assessment and security -- Chapter. 2. Cyber-Physical Systems Security: Analysis, Opportunities, Challenges, and Future Prospects -- Chapter. 3. Cybersecurity-based Blockchain for Cyber-physical Systems: Challenges and Applications -- Chapter. 4. Trust Management in Cyber-Physical System: Issues and Challenges -- Chapter. 5. Blockchain-Based Authentication in IoT Environments: A Survey -- Chapter. 6. Blockchain Technology-Based Smart Cities: A Privacy-Preservation Review -- Chapter. 7. Security in Electronic Health Records System: Blockchain-Based Framework to Protect Data Integrity -- Chapter. 8. A Secure Data-sharing Framework Based on Blockchain: Teleconsultation Use-case -- Chapter. 9. Reputation-Based Consensus on a Secure Blockchain Network -- Chapter. 10. AI and Blockchain for cybersecurity in Cyber- Physical Systems: Challenges and Future Research Agenda -- Chapter. 11. Assessing the Predictability of Bitcoin Using AI and Statistical Models -- Chapter. 12. Blockchain-based novel solution for Online fraud prevention and detection -- Chapter. 13. Proactive AI Enhanced Consensus Algorithm with Fraud Detection in Blockchain.
Sommario/riassunto	This book offers the latest research results on blockchain technology and its application for cybersecurity in cyber-physical systems (CPS). It presents crucial issues in this field and provides a sample of recent

advances and insights into the research progress. Practical use of blockchain technology is addressed as well as cybersecurity and cyber threat challenges and issues. This book also offers readers an excellent foundation on the fundamental concepts and principles of blockchain based cybersecurity for cyber-physical systems. It guides the reader through the core ideas with expert ease. Blockchain technology has infiltrated all areas of our lives, from manufacturing to healthcare and beyond. Cybersecurity is an industry that has been significantly affected by this technology, and maybe more so in the future. This book covers various case studies and applications of blockchain in various cyber-physical fields, such as smart cities, IoT, healthcare, manufacturing, online fraud, etc. This book is one of the first reference books covering the application of blockchain technology for cybersecurity in cyber-physical systems (CPS). Researchers working in the cybersecurity field and advanced-level students studying this field will find this book useful as a reference. Decision-makers, managers and professionals also working in this field will want to purchase this book.

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