1. Record Nr. UNISA996547955403316

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Titolo	Homomorphic Encryption for Financial Cryptography [[electronic resource]] : Recent Inventions and Challenges / / edited by V. Seethalakshmi, Rajesh Kumar Dhanaraj, S. Suganyadevi, Mariya Ouaissa
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-35535-0
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (302 pages)
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Disciplina	005.824
Soggetti	Data protection Financial engineering Cryptography Data encryption (Computer science) Data protection—Law and legislation Data and Information Security Financial Technology and Innovation Cryptology Privacy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 -- Introduction to Homomorphic Encryption for Financial Cryptography -- Chapter 2 -- Survey on Homomorphic Encryption for Financial Cryptography Workout -- Chapter 3 Improved login interface algorithm for Financial Transactions using Visual Cryptographic Authentication -- Chapter 4 Securing shared data based on Homomorphic encryption schemes -- Chapter 5 Challenges and Opportunities associated with Homomorphic Encryption for Financial Cryptography -- Chapter 6 Homomorphic Encryption based Cloud Privacy-Preserving in Remote Ecg Monitoring and Surveillance -- Chapter 7 Enhancing Encryption Security against Cypher Attacks -- Chapter 8 Biometric Based Key Generation Using AES Algorithm for Real

Time Security Applications -- Chapter 9 Financial Cryptography and its application in Blockchain -- Chapter 10 Algorithmic Strategies for Solving Complex Problems in Financial Cryptography.,- Chapter 11 Various Attacks on the implementation of Cryptographic Algorithms -- Chapter 12 A Survey on Private Keyword Sorting and Searching using Homomorphic Encryption -- Chapter 13 Multivariate Cryptosystem Based on a Quadratic Equation to Eliminate the Outliers Using Homomorphic Encryption Scheme. .

Sommario/riassunto

This book offers insights on efficient utilization of homomorphic encryption (HE) for financial cryptography in confidentiality, phishing, anonymity, object and user identity protection. Homomorphic encryption has the potential to be a game-changer for the industry and cloud industry. HE method in cloud computing is presented in this book as a solution to increase the security of the data. Moreover, this book provides details about the set of fundamentals of cryptography, classical HE systems, properties of HE schemes, challenges and opportunities in HE methods, key infrastructure, problem of key management, key sharing, current algorithmic strategies and its limitation in implementation for solving complex problems in financial cryptography, application in blockchain, multivariate cryptosystems based on quadratic equations to avoid the explosion of the coefficients. .