

1. Record Nr.	UNINA9911011343903321
Autore	Zhu Liehuang
Titolo	Blockchain Technology and Application : 7th CCF China Blockchain Conference, CBCC 2024, Shanghai, China, December 13–15, 2024, Revised Selected Papers, Part I // edited by Liehuang Zhu, Yi Sun, Jianming Zhu, Qianhong Wu, Xianhua Song, Zeguang Lu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9662-32-X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (350 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2497
Altri autori (Persone)	SunYi ZhuJianming WuQianhong SongXianhua LuZeguang
Disciplina	621.39 004.6
Soggetti	Computer engineering Computer networks Database management Application software Cryptography Data encryption (Computer science) Operating systems (Computers) Computer Engineering and Networks Database Management Computer and Information Systems Applications Cryptology Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Blockchain Architecture -- EchoShard: A Blockchain Sharding System for Efficient Execution of Cross-Shard Smart Contract Transactions --

Tower: A Layered Approach to Sharding Blockchain for Enhanced Processing Efficiency -- Enhancing Hyperledger's Ordering Service: A Raft-Based Sharding Mechanism -- Sharding Scheme based on Hybrid Trust Model -- A Cross-chain Transmission Protocol Based Oracle -- Innovative Applications of Blockchain -- Organization-wide Distributed Access Control for Zero Trust Security based on a Consortium Blockchain -- CGDC: A Secure External Data Collection Mechanism for Blockchain -- BDIA-Sensor: Blockchain-Based Distributed Identity Authentication for Sensors in Carbon Data Tracing -- Blockchain Price Oracles for Digital Asset Trading -- Quality Traceability System for Garlic Sprout Products Based on Blockchain Technology -- Consensus Mechanism and Smart Contracts -- Improved PBFT Consensus Algorithm Based on Clustering and Reputation Value for IoT -- GRDPoS: Improvement of the DPoS Consensus Mechanism Based on Complex Networks -- SmartAR: Gas-Efficient Automated Repair for Integer Overflow Vulnerabilities in Smart Contracts -- HETCN: A Highly Efficient Temporal Convolutional Neural Network for Vulnerability Detection in Smart Contracts.

Sommario/riassunto

This book CCIS 2497 constitutes the refereed proceedings of the 7th CCF China Blockchain Summit on Blockchain Technology and Application, CBCC 2024, held in Shanghai, China, during December 13–15, 2024. The 13 full papers and 1 short paper were carefully reviewed and selected from 151 submissions. The proceedings focused on discussing the latest developments in blockchain theory and technology, exchanging the latest application achievements of blockchain in distributed systems, cryptography, data elements, economic models, regulatory technology, metaverse and Web3.0.
