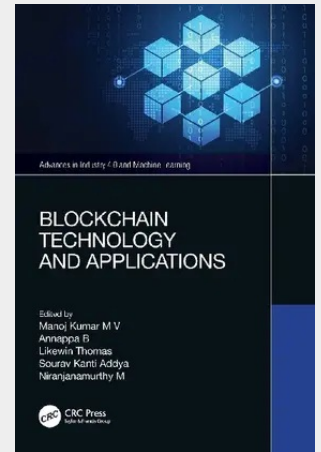


Blockchain Technology and Applications

Blockchain is an emerging platform for developing decentralized applications and data storage, over and beyond its role as a platform for cryptocurrencies. This reference text provides a comprehensive discussion on blockchain technology from research and application perspective. - Discusses different approaches for building distributed applications (DAPPS). - Provides detailed listing and discussion of blockchain technology applications in solving real life problems. - Covers proof of work (PoW) based blockchain consensus, and proof of stake (PoS) based blockchain consensus. - Discusses blockchain algorithms including practical byzantine fault tolerance (PBFT) and simplified byzantine fault tolerance (SBFT). It comprehensively covers important topics including blockchain consensus algorithms, Ethereum, Hyperledger, blockchain scalability, smart contracts with solidity, ERC20 standards, building DApp with Golang, building DApp using Hyperledger, building PoCs with Hyperledger fabric, blockchain as a server, blockchain security and privacy. The text will serve as a useful text for senior undergraduate and graduate students in interdisciplinary areas including electronics and communications engineering, electrical engineering, computer science, and information technology.

Discussing foundations of blockchain technology, elements of cryptography, distributed ledger technology, game theory, and cryptonymic, this reference text will serve as a useful text for students in interdisciplinary areas including electronics and communications engineering, electrical engineering, computer science, and information technology.



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