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This special issue addresses critical aspects such as privacy, security, and trust in blockchain applications across diverse industries. Scholars and practitioners delve into topics including adoption challenges, smart contract precision, defense strategies, consensus mechanisms, data protection, and regulatory frameworks. Featuring contributions from esteemed experts, this compilation offers comprehensive analyses and innovative proposals to enhance understanding and implementation of secure and privacy-preserving blockchain solutions. Explore the forefront of blockchain research, forging a path towards reliable, safe, and resilient decentralized systems.



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