## عنوان مقاله:

Reliability Increasing for Power DistributionSystems Using Blockchain Technology and SmartContract

محل انتشار:

یازدهمین کنفرانس منطقه ای سیرد (سال: 1402)

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## خلاصه مقاله:

This paper explores the potential of blockchaintechnology and smart contracts to enhance the reliability of power distribution systems. Traditional centralized powergrids face various challenges, such as single points of failure, lack of transparency, and inefficiencies. By leveraging blockchain's decentralized nature, data integrity, and automation capabilities through smart contracts, power distribution systems can be transformed into more robust, secure, and efficient networks. This paper discusses the keyfeatures and benefits of blockchain technology in power distribution, including decentralization, smart contracts, data integrity, grid management, and resilience to cyber-attacks. It also addresses the challenges and considerations for implementing blockchain in the energy sector. Through the analysis of simulation results and case studies, this paper highlights the potential of blockchain .technology to revolutionize power distribution systems and improvereliability compared with conventional methods

كلمات كليدي:

.Reliability, Smart Contract, Distribution Systems, Blockchain

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1991910

