Abstract

Blockchain is a list of records called blocks which are linked through the use of cryptography. Each block contains a cryptographic hash of the previous block, a timestamp and transaction data. A summary of all transactions are kept in a merkle tree root hash and stored as part of the header of a block. By design blockchain is highly resistant to modification of data. The case study uses blockchain technology to deploy a digital voting system and tries to provide a more decentralized approach to digital voting.

References

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**Index Terms**

Computer Science Information Systems

**Keywords**

Blockchain; voting; technology; distributed; decentralized;