

An Investigation Enhancing E-Voting Application Performance

Authors : Aditya Verma

Abstract : E-voting using blockchain provides us with a distributed system where data is present on each node present in the network and is reliable and secure too due to its immutability property. This work compares various blockchain consensus algorithms used for e-voting applications in the past, based on performance and node scalability, and chooses the optimal one and improves on one such previous implementation by proposing solutions for the loopholes of the optimally working blockchain consensus algorithm, in our chosen application, e-voting.

Keywords : blockchain, parallel bft, consensus algorithms, performance

Conference Title : ICBSSC 2020 : International Conference on Blockchain-Based Systems and Smart Contracts

Conference Location : Amsterdam, Netherlands

Conference Dates : December 03-04, 2020