Decentralisation of polling processes in developing nations: VoteBlocks Project Report

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Abstract

We put forward an idea and a prototype for an open-source, low-power, polling system built on traditional blockchain technology to decentralise the election process in developing nations in order to protect democracy and prevent voter fraud. Simple resource-efficient hashing mechanisms are used in order to ensure energy-efficiency but at the same time rely on the safety in scale approach to preventing attacks in the electoral process. Limitations of the voter-registration process and partial decentralisation problems are carefully examined and solutions are proposed for the same.

Keywords— elections, democracy, blockchain, decentralised, crypto

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