Hello everyone…(自由发挥

Introduction

The unchangeability of blockchain technology has created some problems, and it has opened the way for some criminal offenses. Some suggest editable blockchain to solve these problems in a controllable way, but the problems remain.

Related work

There are three directions of related work worth noting. Rewritable blockchains based on chameleon hash for rewriting or compressing block contents. Re-chain is a rewritable blockchain with fixed storage space that supports rewriting historical transactions in a chronological order. Another type of blockchain focuses on building de-centralized blockchain that is effective, traceable and editable. The editable blockchain based on chameleon hash has been widely worked on. However, several problems exist with current schemes.

Contributions

We propose a trust-based dynamic editable blockchain that supports updates and traceability. It can ensure full content security through pre-evaluation, restriction and traceability of modification permissions. Our work includes four parts, namely the design of the dynamic trust evaluation model, the construction of the dynamic trust chameleon hash, the instantiation of the editable blockchain, and the related performance analysis.

The algorithm exhibits efficient time consumption at all stages and has four features, as shown on the PPT. The scheme stressed the need for users to build up normal behavior in order to reach and maintain trust thresholds.

Conclusion

In short, pre-assessment and control of user behavior proves to be effective in reducing malicious events. Our trust-based dynamic chameleon hash ensures full process security - pre-evaluation, privilege restriction and traceability. Security analysis and experiments confirm the solution's effectiveness and efficiency in reducing malicious events and enabling secure transaction modifications.

We hope that our work will inspire more interested parties to get involved.

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* Advantage: Dynamic blockchain is able to adjust to real-time demands and conditions of the network, better adapting to changing environments. This allows the network to be more flexible in the face of transaction spikes or other challenges.