Abstract

The introduction electronic commerce has created new financial needs that in many cases cannot be effectively fulfilled by the traditional payment systems. The success of electronic commerce business depends on the credibility of the available electronic payment systems. Electronic cash payment is one electronic payment systems developed to settle payments electronically, but suffers the problem of double-spending fraud. This paper identifies the possible causes of double-spending fraud and presents techniques to mitigate this type of fraud. These techniques involve the modification of existing electronic cash payment system, and a demonstration of the modified system to determine its double-spending fraud resistant capability.

References

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**Index Terms**

Computer Science

Artificial Intelligence
Keywords

eCash  algorithm  registration certificate  double-spending  fraud resistant capability
merchand
real-time
entity
public key infrastructure
subscriber registration authority.