

Reliability Evaluation of a Payment Model in Mobile E-Commerce Using Colored Petri Net

Authors : Abdolghader Pourali, Mohammad V. Malakooti, Muhammad Hussein Yektaie

Abstract : A mobile payment system in mobile e-commerce generally have high security so that the user can trust it for doing business deals, sales, paying financial transactions, etc. in the mobile payment system. Since an architecture or payment model in e-commerce only shows the way of interaction and collaboration among users and mortgagers and does not present any evaluation of effectiveness and confidence about financial transactions to stakeholders. In this paper, we try to present a detailed assessment of the reliability of a mobile payment model in the mobile e-commerce using formal models and colored Petri nets. Finally, we demonstrate that the reliability of this system has high value (case study: a secure payment model in mobile commerce).

Keywords : reliability, colored Petri net, assessment, payment models, m-commerce

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