Abstract

It is becoming evident that the use of electronic systems in performing transactions in modern
day world deliver significant benefits to financial institutions. Payment systems are vital for
financial institutions in any country. They enable the transfer of money and financial
instruments. The desire for improved financial management service using Information
Technology has transformed the banking sector and made better the various ways through
which mobile phones have been used by customers at their convenience to access and operate
their accounts. The emergence of technological advancement has led to the introduction of
mobile banking. The presented algorithms implemented using the USSD exploit a fine
granularity synchronization strategy to significantly outperform existing strategies, particularly by
improving the way electronic banking is carried out in Ghana. The research sketches a proof of
correctness of these algorithms. This explains the use of model-checking to perform exhaustive
verification within a limited application domain and also describe empirical tests performed on
execution traces from an actual implementation. The researcher further enumerated new
approaches that can be adopted in improving electronic banking

References


Index Terms

Computer Science
Information Systems

Keywords

Banking, Electronic, Unstructured Supplementary Service Data, Technology