



Cyber Threats and Mitigation Strategies in East African Financial Systems: A Djibouti Case Study

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Abstract

This study addresses a current research gap in Computer Science concerning Cybersecurity Threats and Mitigation Strategies for Financial Systems in East Africa in Djibouti. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Cybersecurity Threats and Mitigation Strategies for Financial Systems in East Africa, Djibouti, Africa, Computer Science, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Model estimation used $\hat{\theta} = \operatorname{argmin} \{ \theta \} \operatorname{sumiell} (y_i, f\theta(\xi)) + \lambda \operatorname{Vert}\theta \operatorname{Vert}^2$, with performance evaluated using out-of-sample error.

Keywords: *East African, Financial Networks, Network Security, Cryptography, Encryption, Blockchain Technology, Risk Management*

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