



Replication Study on E-Government Access and Service Delays in Rural Health Care Settings, Eastern Uganda

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Published: 18 April 2013 | **Received:** 16 November 2012 | **Accepted:** 28 February 2013

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DOI: [10.5281/zenodo.18993503](https://doi.org/10.5281/zenodo.18993503)

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Mwesigwa Isaac Simiyu is affiliated with Department of Cybersecurity, Busitema University and focuses on Computer Science research in Africa.

Abstract

This study addresses a current research gap in Computer Science concerning Quantitative Analysis of E-Government Access and Service Delays for Primary Health Care Users in Eastern Uganda in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. 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. Quantitative Analysis of E-Government Access and Service Delays for Primary Health Care Users in Eastern Uganda, Uganda, Africa, Computer Science, replication study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Model estimation used $\hat{\theta} = \underset{\theta}{\operatorname{argmin}} \{ \theta \} \operatorname{sumiell} (y_i, f\theta(\xi)) + \lambda l \operatorname{Vert}\theta r \operatorname{Vert} 2^2$, with performance evaluated using out-of-sample error.

Keywords: *Geographic, Quantitative, Analysis, Service Delays, E-Government, Health Care, Technology Adoption*

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