



# Open Data Initiatives and Governance Transparency in Uganda: A Systematic Review

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### Author notes

Kizza Kibuuka is affiliated with Department of Data Science, Mbarara University of Science and Technology and focuses on Computer Science research in Africa.

### Abstract

This study addresses a current research gap in Computer Science concerning The Role of Open Data Initiatives in Promoting Transparency and Governance in Uganda. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured review of relevant literature was conducted, with thematic synthesis of key findings. 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. The Role of Open Data Initiatives in Promoting Transparency and Governance, Uganda, Africa, Computer Science, systematic review This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. Model estimation used  $\hat{\theta} = \underset{\theta}{\operatorname{argmin}} \{ \theta \} \operatorname{sumiell} ( y_i, f\theta(\xi) ) + \lambda \operatorname{Vert}\theta \operatorname{Vert}^2$ , with performance evaluated using out-of-sample error.

### Keywords:

African  
Sub-Saharan

Geographic

Terms:

### Topic-Relevant

Open  
Data  
Transparency  
Governance  
Information

Terms:

Data  
Governance  
Measures  
Evaluation  
Access

### Methodological

Systematic  
Qualitative

Terms:

Review  
Analysis

*Quantitative  
Literature*

*Analysis  
Synthesis*

*Theoretical  
Democratic  
Public Participation*

*Concepts:  
Practices*

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