



Methodological Evaluation of Secondary School Systems in Uganda: Time-Series Forecasting Model for Cost-Effectiveness Analysis

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Abstract

Secondary schools in Uganda face challenges related to resource allocation and operational efficiency. A time-series forecasting model was employed, incorporating data from multiple years of secondary school operations. Robust standard errors were used for inference on the model's parameters. The forecast indicated an annual average reduction in operational costs by approximately 15% over a five-year period. The time-series forecasting model demonstrated promising results in estimating cost-effectiveness, providing insights into resource management strategies. Further research should focus on validating these findings through pilot studies and broader implementation. Secondary schools, Uganda, Cost-effectiveness, Time-series analysis The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: Sub-Saharan, econometric, forecasting, cost-effectiveness, time-series, regression, evaluation

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