

Review of: "A Cointegrated Multi-Factor Semi-Log Regression Approach to Quarantine the Impact of Microfinance on Poverty Regionally"

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Potential competing interests: No potential competing interests to declare.

Abstract

Indicate the analysis method, such as Cointegration, etc. Semi-log is not the hypothesis testing. Besides, indicate that the main objective is OK rather than explain all the main questions.

Data analysis

The manuscript would benefit from employing the Autoregressive Distributed Lag (ARDL) approach for data analysis:

1. Particularly advantageous for small sample sizes, the ARDL methodology accommodates limited data by providing reliable estimates even with fewer observations, making it suitable for studies with constrained sample sizes, as in this study (35 observations).
2. Given its advantages in capturing both short-term and long-term dynamics in the relationship between microfinance and poverty at a regional level.
3. The ARDL methodology is well-suited for examining relationships in dynamic systems, offering flexibility in handling non-stationary time series data and accommodating both $I(0)$ and $I(1)$ variables.
4. Using the ADF cointegrated method leads to bias.

Number of IVs

The manuscript's use of multiple independent variables (IVs) raises concerns about the impact on the degrees of freedom. Including many IVs can reduce the number of observations available for each variable, which might lead to problems like multicollinearity and inflated standard errors. To address this, it's important to carefully choose the most relevant IVs that capture the main factors affecting the relationship between microfinance and poverty regionally.

Implications

Besides the practical implications, should also indicate the theoretical implications.