ICT Infrastructure Development and Economic Growth Nexus in Ethiopia: A Scholarly Perspective

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Abstract

The rapid development of Information and Communication Technology (ICT) infrastructure in Ethiopia has been a focal point for economic growth studies. The research employs ordinary least squares (OLS) regression analysis to estimate the impact of ICT infrastructure on GDP growth. The study also incorporates robust standard errors for inference. Results indicate a significant positive correlation between increased investment in ICT infrastructure and economic growth, with a coefficient of 0.85 indicating that every $1\, increase \in ICT\, investment\, leads\, ¿\, an\, estimated\, 0.85\%\, growth \in GDP. The\, study\, concludes\, that\, enhancing\, ICT\, i$ $\hat{\theta}=argmin{\theta}\sumi\ell(yi,f\theta(xi))+\lambda\lVert\theta\rVert2^2$, with performance evaluated using out-of-sample error.

Keywords: *Sub-Saharan, econometrics, telecommunication, productivity, globalization, development economics, regression analysis*

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