
The 3rd International Symposium on Generative AI and Education : Submission (88) has been created.

1 mensaje

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Para: aj.maquera@est.unap.edu.pe

8 de enero de 2026 a las 16:05

Hello,

The following submission has been created.

Track Name: ISGAIE2026

Paper ID: 88

Paper Title: Why Do Local Governments Outperform Central Governments? Spatial DiD and GenAI for Policy Learning in Peru's Public Investment

Abstract:

This study combines spatial econometrics and Generative AI to answer two questions: (1) Why do Peruvian local governments execute public investment 16.83 percentage points more than national/regional governments? (2) Can GenAI make complex spatial analysis accessible to non-technical policymakers?

Using a Spatial Difference-in-Differences design on 12,227 georeferenced projects (1,569 districts, 2019-2023), we evaluate the DS 179-2020-EF reform. We find no statistically significant differential effect on local governments (-4.55 p.p., p=0.26), with weak spatial spillovers ($\rho = -0.11$, p=0.58). The robust local government advantage (+16.83 p.p., p<0.001) aligns with decentralization theory: local knowledge advantages, stronger accountability incentives, and reduced bureaucratic complexity. To translate these technical findings into actionable policy insights, we implement a Retrieval-Augmented Generation (RAG) system using Groq's Llama 3.1-8b model. While proof-of-concept, our system demonstrates how GenAI can democratize access to advanced spatial analysis, fostering data-driven decision-making in developing countries.

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Secondary Subject Areas: Not Entered

Submission Files:

ISGAIE_26_Maquera Aldair.pdf (2 Mb, Thu, 08 Jan 2026 20:59:53 GMT)

Submission Questions Response: Not Entered

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