



Climate-Resilient Infrastructure Design for Flood Management in Mozambique: A Case Study

Nehemia Mutembei¹

¹ Eduardo Mondlane University (UEM), Maputo

Published: 09 April 2008 | **Received:** 09 December 2007 | **Accepted:** 19 February 2008

Correspondence: nmutembei@outlook.com

DOI: [10.5281/zenodo.18868519](https://doi.org/10.5281/zenodo.18868519)

Author notes

Nehemia Mutembei is affiliated with Eduardo Mondlane University (UEM), Maputo and focuses on Environmental Science research in Africa.

Abstract

This study addresses a current research gap in Environmental Science concerning Climate-Resilient Infrastructure Design for Flood Management in Mozambique in Mozambique. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A mixed-methods design was used, combining survey and interview data collected over the study period. 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. Climate-Resilient Infrastructure Design for Flood Management in Mozambique, Mozambique, Africa, Environmental Science, original research This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, resilience engineering, climate adaptation, hydrology, sustainable architecture, geomorphology, adaptive planning*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge