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Validating a Multi-Hazard Risk Index for Informal Settlements: Integrating Flood, Fire and Social Vulnerability Data in a Kenyan Context

K, a, m, a, u, O, t, i, e, n, o, ,, W, a, n, j, i, k, u, M, w, a, n, g, i, ,, K, i, p, c, h,
u, m, b, a, C, h, e, r, u, i, y, o, t, ,, A, m, i, n, a, H, a, s, s, a, n

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| Abstract

This study addresses a current research gap in Engineering concerning Validating a Multi-Hazard Risk Index for Informal Settlements in Cape Town Integrating Flood, Fire, and Social Vulnerability Data in Kenya. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Validating a Multi-Hazard Risk Index for Informal Settlements in Cape Town Integrating Flood, Fire, and Social Vulnerability Data, Kenya, Africa, Engineering, short report This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.
