



Analysis of Development of Sensors and IoT Systems for Environmental Monitoring in Mining Sites in Egypt: An African Perspective

Karen Pritchard¹

¹ Mansoura University

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Correspondence: kpritchard@yahoo.com

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Author notes

Karen Pritchard is affiliated with Mansoura University and focuses on Engineering research in Africa.

Abstract

This study addresses a current research gap in Engineering concerning Development of Sensors and IoT Systems for Environmental Monitoring in Mining Sites in Egypt. 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. Development of Sensors and IoT Systems for Environmental Monitoring in Mining Sites, Egypt, Africa, Engineering, book review This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *Development of Sensors and IoT Systems for Environmental Monitoring in Mining Sites, Egypt, Africa, Engineering*

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