Submission Summary

Conference Name	RECENT ADVANCES IN SUSTAINABLE ENGINEERING AND FUTURE TECHNOLOGIES
Paper ID	204
Paper Title	Enhancing Agricultural Productivity Through IoT-Based Soil Testing and AI-Driven Crop Recommendations
Abstract	Soil is a crucial natural resource with profound economic and ecological implications. This research paper explores the potential of artificial intelligence (AI) to revolutionize soil testing and fertilizer recommendations, ultimately enhancing agricultural sustainability. We discuss the challenges posed by inefficient fertilizer use and the importance of soil testing in optimizing crop yields. The paper outlines the objectives, methods, and results of our study, which leveraged machine learning algorithms to predict crop yields based on soil quality. By analyzing data from various sources, we demonstrate the significant impact of AI-driven recommendations on cost-benefit ratios for farmers and the sustainable utilization of soil resources. Our findings underscore the importance of balanced nutrient management and highlight the role of AI in shaping the future of agriculture.
Created	3/10/2024, 2:34:51 PM
Last Modified	3/10/2024, 2:34:51 PM
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Submission Files	Reasearch Paper(New Format).pdf (50.1 Kb, 3/10/2024, 2:34:38 PM)