

Application of Neural Network in Greenhouse Gas Analysis in Nigeria and Implications of Mitigation Approach of Nigeria Government in Greenhouse Gas Reduction

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Abstract

This study is aimed at investigating the application of neural network in greenhouse gas analysis in Nigeria and implication of mitigating approach of Nigeria Government on greenhouse gas reduction. The study will look at two locations with satellite data. Two major greenhouse gas such as methane and carbon dioxide will be study. It will span from 2013 to 2023. The application of neural networks in various aspects of greenhouse gases emissions analysis, such as forecasting, correlation analysis, and strategic approach for emissions reduction in Nigeria will be carried out. Application of neural networks has been limited, but some studies have explored their potential in the analysis. The application of the model can lead to significant implications for sustainable development and climate change mitigation in Nigeria. Nigeria has initiated strategies in reducing its greenhouse gas emissions through various mitigation approaches. She initiated Intended Nationally Determined Contributions (INDC) that will voluntarily unconditionally reduce its greenhouse gases by 20% and conditionally by 47% upon the receipt of international support. Nigeria also adopted new Methane Guidelines that will checkmate the oil and gas companies etc. This study will give innovative details on the application of neural network analysis on greenhouse gases that will help Nigeria Government in the quest to reduce greenhouse gases. By leveraging on the innovative result, Nigeria Government will achieved its committed strategies in reducing its greenhouse gas emissions through various mitigation approaches

Early Career Scientist

YES, I am an early career scientist.

IGAC Activities

GEIA: Global Emissions Initiative

IGAC Regional Working Groups

ANGA: African Group on Atmospheric Sciences