

Review of: "Spatial Analysis of Soil Fertility Using Geostatistical Techniques And Artificial Neural Networks"

Maryem Ismaili1

1 Université Sultan Moulay Slimane

Potential competing interests: No potential competing interests to declare.

the article titled "Spatial Analysis of Soil Fertility Using Geostatistical Techniques And Artificial Neural Networks." The study aims to explore the spatial variation in soil fertility using geostatistical techniques and artificial neural networks. While the article addresses an interesting and relevant topic, there are several areas that need improvement.

- 1. Lack of References: One notable weakness of the article is the insufficient number of references. The current literature review does not adequately cover existing studies on spatial analysis of soil fertility, geostatistical techniques, and artificial neural networks. A more comprehensive review of relevant literature would strengthen the theoretical foundation of the study, provide context for the research, and help readers understand the significance of the work in the broader scientific community.
- 2. Improvement Needed in Study Area Figure: The figure depicting the study area is lacking in clarity and detail. The geographical representation is not sufficiently informative, making it challenging for readers to grasp the spatial context of the study. Enhancing this figure by including key geographical features, relevant landmarks, and a scale bar would significantly improve its utility. Additionally, the figure should ideally include a map legend for better interpretation.
- 3. Clarification on Al Model: The article mentions the use of neuro-fuzzy FKCN algorithm in the study, but it lacks clarity on whether the model falls under the category of machine learning or deep learning. Given the growing importance of distinguishing between these two terms, especially in the context of Al applications, the article should explicitly specify whether the artificial neural network utilized is a machine learning model or a deep learning model. This clarification is essential for readers with varying levels of expertise in the field.

Conclusion: In conclusion, the article "Spatial Analysis of Soil Fertility Using Geostatistical Techniques And Artificial Neural Networks" addresses an important area of research but requires improvements in terms of references, the study area figure, and clarity regarding the type of AI model employed. Strengthening these aspects will enhance the overall quality and impact of the article, contributing to the scientific discourse in the field of spatial analysis of soil fertility.

Qeios ID: 5CXZ7Z · https://doi.org/10.32388/5CXZ7Z