

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

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Potential competing interests: No potential competing interests to declare.

In this study, the authors produced a digital map of soil fertility by combining several approaches (in situ measurements, statistical interpolation and the FKCN neuro-fuzzy algorithm). The methodological framework developed and the results obtained are scientifically sound.

However, I do have a few comments:

- 1. In the sentence "The final model of digital soil fertility classes presented a reliability equivalent to 86%, which indicated a high degree of homogeneity within the soil classes obtained for fertility purposes", it should be specified that 86% is the Value of accuracy, confidence level, or another indicator for measuring concordance or precision?
- 2. The first three paragraphs of the introduction could be improved by illustrating with references rather than a single reference.
- 3. Study area, there is no information on the biophysical and climatic characteristics and spatial extent of the study area.
- 4. In the Soil sampling section: You should explain why systematic sampling was chosen instead of random sampling.
- 5. The results section is well analysed but the discussion of the results is weak.