Review of: "Integration and Implementation of Multiple Soil Sensors for Automated and Regulated Irrigation"

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Potential competing interests: No potential competing interests to declare.

The paper developed a soil profile system, which is so-called efficient and suitable for irrigation systems control, acquisition, and wireless transmission of soil property data in real time. However, in my opinion, a system should be evaluated in combination with effective methods and algorithms. It is a pity that the authors did not propose any creative or attractive methods to support their hardware system. I strongly recommend that the study on new or prevalent methodologies be added, such as some machine learning methods, adaptive training methods, or some other AI methods. The paper should be reconsidered when authors address this issue. Other than this, some comments for paper revision are listed as follows,

- There are too many figures so that the paper seems too long to be a normal research paper. - The paper should be extremely shortened, especially some figures should be removed.

- The flowcharts are not detailed enough to tell your creative work adequately; please revise them.

- The quality of figures is low on average.

- Equations are not well edited.

- RMSE, NRMSE, and MAE are similar indicators to evaluate the errors. I do not think the three are all needed. Please remove the not-so-important one.

- More wordings and sentences are in demand in the discussion section to interpret your results.

- The regression figures should be revised (they are hard to read).

- The conclusion section should be revised to show your conclusion in discussion with your digital results.