

# Review of: "Design of an intelligent controller for improving the solar system efficiency"

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**Potential competing interests:** No potential competing interests to declare.

The article aims to create an intelligent controller that can enhance the efficiency of a solar system. The following comments need to be addressed by the authors:

- What is the innovation of the model you offer? This topic has been studied in many articles in recent years. What are the research gaps that need to be addressed and convince the authors to write the present paper?
- The paper needs to be proofread. There are some grammatical/writing errors in the text that should be rectified. A thorough proofreading is required to make the text smoother. Also, the text has some grammatical errors that it is recommended to rewrite.
- What are the contributions of the paper concerning the recently published papers in the literature? The manuscript lacks any significant literature review. The authors can enhance the effectiveness of their article by reviewing similar works and explaining the content better to the readers. Also, the comparison of the previous works and the presented work needs more elaboration in the Introduction.
- Why hasn't any optimization algorithm been used in the presented method despite what the authors have stated about the ANFIS algorithm? Could you please clarify what the intelligent algorithm mentioned in the abstract section is all about?
- How did the authors take into account dynamic conditions like temperature changes and sunlight radiation?
- It is necessary to update the references in the article as most of them are outdated.
- The mathematical analysis for the PV system requires providing some mathematical models for a better understanding of the subject. The mathematical modelling of the problem is poor.
- The quality of presentation of Figures 5 and 6 is low and they need to be replaced with quality ones. In addition, the names of axes in Figures 2, 3, 7, 8, and 9 must be expressed in English.
- Acronyms must be fully defined for the first time appearing in the text.