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 addresses a recent topic of interest to the power system community, namely, design of an intelligent controller for improving the solar system efficiency.

The article is weak and presents not very suitable survey of literature in Introduction. However, in my opinion, the paper presents some problems that need to be addressed before it can be considered for publication. My main concern regarding the proposed methodology is that it seems to have some limitations considering real electrical systems, among which I highlight three:

1) English is not so bad, but it is clearly written by a non-native speaker. Thus, a full revision should be done.

2) in Introduction, bring literature review of references.

3) As the authors are proposing a “design of an intelligent controller” for improving the solar system efficiency, a more careful validation must be presented, for example, using metaheuristic algorithm based-on intelligent controller. In the manuscript, the validations are based on simulation results generated by the authors themselves.

Please also consider the following questions and minor points:

1) All images are of very poor quality and should be corrected.

2) bring the formulation and objective function and constraints and then describe it completely.

3) Draw the flowchart of the proposed fuzzy algorithm and describe steps.

4) The proposed controller coefficients for fuzzy algorithm are given in the table.

5) In the results presented in second scenario, Check the performance of the controller by simultaneously changing solar irradiation and temperature.