

REVIEWER'S REPORT

Manuscript No.: IJAR-58736

Title: Bridging Conventional and Intelligent MPPT Techniques: A Hybrid ANN-P&O Approach for Smart Photovoltaic Systems.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision ...✓.....

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity		✓		
Significance		✓		

Reviewer's ID: JPR-DR PRITI GUPTA

Detailed Reviewer's Report

1. The abstract should clearly distinguish between **demonstrated results** and **future robustness testing**. At present, the abstract itself states that an out-of-model test is required to quantify the specific value of P&O refinement.
2. Table 5 is captioned as "Dynamic Indicators for Standalone ANN and Conventional P&O," but the table also contains hybrid ANN-P&O results. The caption should be corrected.
3. Numerical formatting should be standardized. For example, Table 5 uses both decimal points and decimal commas in the hybrid results ("151,48", "0,631"), which should be made consistent.
4. Equations should be checked carefully for formatting and dimensional consistency. Some equations in the parsed manuscript are difficult to read because of formatting/alignment issues.
5. Figures should be improved in resolution and readability. Labels, legends, axes, and flowchart text should remain clearly readable in the final publication.
6. The manuscript should carefully distinguish **MPPT tracking accuracy**, **tracking efficiency**, **power ripple**, and **settling/response time**, because these metrics are not interchangeable.
7. The reference list is generally relevant and includes established MPPT literature, including the works of Villalva et al., ESRAM and Chapman, Femia et al., Hohm and Ropp, and recent reviews. However, more recent research specifically addressing ANN-based and hybrid MPPT implementation could strengthen the literature review.