



[ICPEA 2023] Your paper #1570873307 ('Artificial Neural Network Prediction to Identify Solar Energy Potential in Eastern Indonesia')

1 message

ICPEA 2023 (icpea@uitm.edu.my) <icpea=uitm.edu.my@edas.info>

30 December 2022 at 10:18

Reply-To: ICPEA 2023 <icpea@uitm.edu.my>

To: Dharma Aryani <dharma.aryani@poliupg.ac.id>

Dear Dr. Dharma Aryani:

Congratulations - your paper #1570873307 ('Artificial Neural Network Prediction to Identify Solar Energy Potential in Eastern Indonesia') for ICPEA 2023 has been accepted for ORAL presentation.

Please reflect the reviewers' comments into your final manuscript, and submit it in IEEE PDF format via EDAS by January 15, 2022. Note that at least one author is required to register and make payment to this conference before submitting the final camera ready manuscript. The detailed information about the submission of final manuscript and the author registration will be posted at the conference homepage <https://icpea2022.uitm.edu.my/>

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Please take note that IEEE has a strict policy on "NO-SHOW". The IEEE has implemented policies to exclude authors who do not present their paper from further distribution of their publication, such as exclusion from IEEE Xplore. Therefore, one of the authors or their representatives MUST present the paper at the event.

Papers that have >30% similarity index will be rejected

The reviews are below or can be found at <https://www.edas.info/showPaper.php?m=1570873307>.

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Review 1 =====

> *** Contributions: What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper.

The major issues addressed in the paper is regarding the prediction to Identify Solar Energy Potential in Eastern Indonesia using ANN. The outcome of the research seems important. However, the degree of novelty, creativity and technical depth in terms of ANN method need to be improved.

> *** Track Arrangement: The content of the paper arrangement corresponds to which conference tracks? Please select one from the list as mentioned below:

1. Power System Operation and Planning
2. Renewable Energy and Storage
3. Energy and Environment in Power Engineering Application
4. High Voltage Engineering and Technology
5. Power Electronics and Applications
6. Machines and Electric Drives
7. Economics of Energy Systems and Electricity Markets
8. Smart Grid
9. Big Data Analysis in Power Engineering Applications
10. Internet of Things (IoT) in Power Engineering Applications
11. Data Analytics in Power Engineering Applications
12. Electric Vehicle (EV)
13. Out of tracks of this conference

Renewable Energy and Storage

> *** Presentation: Clarity and Organisation of Content
Accept (9)

> *** Significance of Topic: Relating to the theme of the track/symposium, also consider papers that contributes to development of applications.
Accept (9)

> *** Technical Contribution: Technical/Scientific Contribution, also consider papers that contributes to development of applications.
Weak Accept (8)

> *** Originality: New or Novel contribution, also consider contribution to applications.
Weak Accept (8)

> *** Detailed comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors. Refrain from repeating those already mentioned in other parts.

1) The literature survey is too broad. Please include more applications of Artificial Intelligence in modelling/prediction the renewable plant or sources. You may include the following references:

[a] <https://doi.org/10.3390/su13042393>

[b] <http://doi.org/10.11591/ijeecs.v18.i3.pp1123-1129>

[c] <https://doi.org/10.1016/j.egyai.2021.100123>

[d] <https://doi.org/10.1002/ese3.906>

[e] <http://doi.org/10.11591/ijeecs.v16.i1.pp101-106>

[f] <https://doi.org/10.1016/j.egy.2021.08.134>

2) The explanation of ANN seems too short without any supporting figures, formulation, equation and even a flow chart. Please add more explanation of ANN and a procedure to predict solar energy potential.

3) In the results, the author should show the effectiveness of the ANN by comparing it with other conventional prediction method.

> *** Weaknesses: What are the most important reasons NOT to accept the paper? [Be brief.]

The ANN explanation is too superficial.

> *** Strengths: What are the major reasons to accept the paper? [Be brief.]

The outcome of this research is important to observe the mapping of solar energy potential.

> *** Recommendation: Overall view and recommendation
Weak Accept (8)

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Review 2
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> *** Contributions: What are the major issues addressed in the paper? Do you consider them important? Comment on the degree of novelty, creativity and technical depth in the paper.

The paper highlighted the prediction technique on value of solar energy in Eastern Indonesia. Novelty & Creativity are acceptable - Estimation of average solar irradiance in the locations using ANN based on NASA data

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8. Smart Grid
9. Big Data Analysis in Power Engineering Applications
10. Internet of Things (IoT) in Power Engineering Applications
11. Data Analytics in Power Engineering Applications
12. Electric Vehicle (EV)

13. Out of tracks of this conference

3. Energy and Environment in Power Engineering Application

> *** Presentation: Clarity and Organisation of Content

Accept (9)

> *** Significance of Topic: Relating to the theme of the track/symposium, also consider papers that contributes to development of applications.

Accept (9)

> *** Technical Contribution: Technical/Scientific Contribution, also consider papers that contributes to development of applications.

Accept (9)

> *** Originality: New or Novel contribution, also consider contribution to applications.

Accept (9)

> *** Detailed comments: Please provide detailed comments that will be helpful to the TPC for assessing the paper, as well as feedback to the authors. Refrain from repeating those already mentioned in other parts.

Figure 2 and 3, repeating. Maluku and Nusa Tenggara islands are consistently provide high solar irradiance during all seasons, how much the value of solar irradiance and expected solar irradiation? Eventhough some area received medium and low solar irradiance. Please justify, is it suitable for solar system installation.

> *** Weaknesses: What are the most important reasons NOT to accept the paper? [Be brief.]

> *** Strengths: What are the major reasons to accept the paper? [Be brief.]

The analysis and research element are acceptable and can be extended to detail on solar irradiation generated from the location, and justify the locations are suitable for installation of solar system

> *** Recommendation: Overall view and recommendation

Accept (9)

Regards,
Hasmaini Mohamad, PhD
General Chair