

Review of: "Spatio-Temporal Analysis of Precipitation Patterns in Xinjiang Using TRMM Data and Spatial Interpolation Methods: A Comparative Study"

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Potential competing interests: No potential competing interests to declare.

Your research addresses an important issue, and your proposed algorithm shows promise. However, there are several areas that could be improved to enhance the clarity and rigor of your work. Here are the specific suggestions for revision:

1. This article lacks a background introduction to such massive data. Writing background refers to the historical background in which the author created this article, and the context in which it was created. Therefore, please optimize the writing background of the article so that it can have a deeper understanding of the content.
2. In the introduction section of the article, the author's expression of the writing meaning is somewhat vague and difficult to understand. Please reorganize the language to express it so that readers can quickly understand the writing meaning and purpose of the article.
3. This article introduces the research of multiple scholars and explains their research methods. However, the literature section can emphasize the shortcomings of various methods, which is enough to shift to newly proposed methods. It is better to add the following references to enrich the work:

10.1007/s12524-020-01155-y

10.14358/PERS.83.1.41

10.1108/AEAT-02-2020-0030

10.1117/1.JRS.9.097695

10.1109/JSTARS.2022.3188732

10.3390/w14193069

10.1007/s12524-014-0423-3

10.1111/wej.12681

10.1007/s12524-021-01399-2

10.3390/agriculture12010118

10.1109/JSTARS.2023.3239756

10.1007/s12524-021-01382-x

10.1109/JSTARS.2022.3223423

10.1109/JSTARS.2023.3242310

10.1007/s10668-021-02097-2

4. Provide information on the specific data used in your study. Mention the source and characteristics of the data.
6. Describe the simulation environment and parameters used for testing the algorithm.
7. Include a discussion on the metrics used to evaluate the algorithm's performance and why these metrics were chosen.
8. Provide a more detailed presentation of the simulation results, including tables or graphs to illustrate the improvements achieved.
9. Discuss the computational complexity of your proposed algorithm and how it compares to existing methods.
10. For evaluation purposes, the text should include a discussion section that compares the results with existing literature.
11. What are the limitations of this study?
12. The conclusion of this paper still provides a lot of background information, which obviously does not meet the requirements of conclusion writing. In addition, this article did not explain the shortcomings of the experimental section and the direction of future research.