

Review of: "Flood Prediction Using Artificial Neural Networks: A Case Study in Temerloh, Pahang"

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Potential competing interests: No potential competing interests to declare.

Weaknesses:

- The paper suffers from redundancy and disorganization in the presentation of its content. For instance, the section discussing flood susceptibility in the Sungai Pinang Catchment is repeated verbatim, which may confuse readers.
- The use of jargon and acronyms without proper introduction or explanation could make the paper less accessible. Terms like MNDWI, NDWI, and BE are used without prior definition.
- However, the validation analysis is lacking important information about limitations of the dataset, and potential biases should also be a standard part of any research involving predictive modeling.

Suggestions for Improvement:

- The authors should restructure the paper to avoid repetition and improve the logical flow of information. Ensuring that each study area and model is discussed in a dedicated subsection would enhance clarity.
- Introduce and define all technical terms and acronyms when they first appear in the text. This will make the paper more accessible to a broader audience.
- Address the limitations of the models used, such as potential overfitting or biases in the data. Discuss how these limitations could affect the generalizability of the results and what steps were taken to mitigate them.
- Provide a more cohesive and structured 'Results and Discussion' section, where each model's results are clearly delineated, and transitions between different parts of the analysis are smooth. This could include summarizing the performance of each model in a table for easier comparison.

Final decision:

The paper in question makes an excellent contribution to the use of machine learning techniques in flood risk assessment. Its impact could be improved by some minor structuring of the writing, definition of the terms, inclusion of the limitations

related to this approach, and presentation in a better medium geared towards reporting to researchers and practitioners in the field of environmental disaster management.