

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC2
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Comment on nhess-2022-36

Anonymous Referee #2

Referee comment on "A Multi-strategy-mode-waterlogging-prediction Framework for Urban Flood Depth" by Zongjia Zhang et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-36-RC2>, 2022

This paper addresses urban waterlogging and its prediction using machine learning regression methods, which is obviously an important research topic. However, I recommend a rewrite of the paper, at least partially, before it could be considered for publication.

First, the paper should be more clarified and concise. The introduction and literature review sections are lengthy, but fail to identify both the research gap in the current literature and the research questions to be addressed in this paper. I recommend to integrate the two sections, and clarify the research questions based on the literature review.

Second, other sections should also be shortened and presented in a more direct way. For instance, I did not get the information I expected from a conclusion section although length is enough. There are 10 tables and 15 figures, exhausting the readers to get the key information.

Third, I cannot understand why the authors did not include elevation data in the methodology, which should be a critical factor in determining urban floods.

Finally, grammatical errors are throughout the manuscript.