Natural Hazards and Earth System Sciences Discussions

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC2
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Comment on nhess-2021-34

Anonymous Referee #2

Referee comment on "Review article: A systematic review and future prospects of flood vulnerability indices" by Luana Lavagnoli Moreira et al., Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2021-34-RC2, 2021

General comments

The review paper "A systematic review and future prospects of flood vulnerability indices" has comprehensively provided an overview of the state-of-art of vulnerability indices, which is interesting and also important as it identified and outlined gaps for future research. The paper is well structured and systematically presented the reviewed results. However, there some issues that need to be addressed to make the paper understandable.

Specific comments

- **Line 25:** I would disagree with the statement that vulnerability is still neglected in flood risk assessment. It could be a shortcoming of your article search criteria or a strict selection of eligible papers, which made explicit links to your search terms. Also, you finally selected 95 papers, which focused on the vulnerability index. Now, how was it neglected?
- **Line 35:** the physical, social, economic, and environmental conditions and coping capacities DO NOT always increase the susceptibility of the exposed elements….. it has influences, which could increase or decrease susceptibility of the exposed elements. Consider revising it.
- **Lines 131-133:** I think the Sendai framework was an agreement among nations but was not created.

Technical corrections

- **Line 14:** uncertainty *analyzes*…should be analyses.
- **Line 237:** Please delete the full stop (.) after the bracket closed.
- **Line 270-271:** The sentence appears incomplete or looks difficult to comprehend. Consider completing or revising it.
- **Line 278:** "A further issue is that the "reasoning" for variable….." It could be the "reason"…
- **Line 294:** Please this sentence needs to be revised or reframed to make it easy for understanding.
- **Lines 304-308:** Please revise or reframe the sentences for easy understanding. Check for the connecting verbs and the missing links, which make the arguments difficult to understand.
- **Line 305:** Punctuation issues detected. "conducted any form of validation of their results(,) using……"
- **Line 306:** "The lack of these analyzes results" should be "analyses"
- **Line 158:** Figure 3. Classification of papers of flood vulnerability in terms of scale "in continents"…. Should be "by continent".

General observations

- The manuscript should be thoroughly checked for typo errors. A few typo errors were found in the manuscript.
- The manuscript must be checked for punctuation errors. Throughout the manuscript, punctuation issues were found and they must be addressed before the manuscript reaches the processing stage.