Review of: "Recent Trends and Techniques in Landslide Hazard Assessment"

Mohammad Maleki

Potential competing interests: No potential competing interests to declare.

Thank you for inviting me to review the article "Recent Trends and Techniques in Landslide Hazard Assessment."

I have reviewed the article. As it stands, the article is not suitable for publication, provided the following revisions are considered:

The title of the article begins with "Recent Trends and Techniques," while most of the sources are from before 2010, and there are no sources newer than 2020. I suggest incorporating the following sources into the text:

1. Das, S., Sarkar, S., & Kanungo, D. P. (2023). A critical review on landslide susceptibility zonation: recent trends, techniques, and practices in Indian Himalaya. Natural Hazards, 115(1), 23-72.

2. Lyu, H. M., & Yin, Z. Y. (2023). An improved MCDM combined with GIS for risk assessment of multi-hazards in Hong Kong. Sustainable Cities and Society, 91, 104427.

3. Maleki, M., Rahmati, M., Sadidi, J., & Babaee, E. (2014, November). Landslide risk zonation using AHP method and GIS in Malaverd catchment, Kermanshah, Iran. In International Conference on Geospatial Information Research (GI Research 2014) (pp. 15-17).

4. Malik, A., & Kumar, H. (2022). Review of landslide hazard susceptibility models—Trends and analysis. Journal of Indian Geomorphology, 10, 41-61.

5. Nanehkaran, Y. A., Mao, Y., Azarafza, M., Kockar, M. K., & Zhu, H. H. (2021). Fuzzy-based multiple decision method for landslide susceptibility and hazard assessment: A case study of Tabriz, Iran. Geomechanics and Engineering, 24(5), 407-418.

6. Pardeshi, S. D., Autade, S. E., & Pardeshi, S. S. (2013). Landslide hazard assessment: recent trends and techniques. SpringerPlus, 2, 1-11.

7. Saha, A., Villuri, V. G. K., & Bhardwaj, A. (2022). Development and assessment of GIS-based landslide susceptibility mapping models using ANN, Fuzzy-AHP, and MCDA in Darjeeling Himalayas, West Bengal, India. Land, 11(10), 1711.

8. Shano, L., Raghuvanshi, T. K., & Meten, M. (2020). Landslide susceptibility evaluation and hazard zonation techniques–a review. Geoenvironmental Disasters, 7, 1-19.

9. Skrzypczak, I., Kokoszka, W., Zientek, D., Tang, Y., & Kogut, J. (2021). Landslide hazard assessment map as an element supporting spatial planning: The flysch Carpathians region study. Remote Sensing, 13(2), 317.

10. Tyagi, A., Tiwari, R. K., & James, N. (2021). GIS-based landslide hazard zonation and risk studies using MCDM. In Local Site Effects and Ground Failures: Select Proceedings of 7th ICRAGEE 2020 (pp. 251-266). Springer Singapore.

The abstract does not provide any information on the methodology and results.

On page 1, the last two lines state, "Geologists, engineers, members of society, and local governments throughout the world have all developed a keen interest in assessing landslide risk and hazard in recent years," while the source is from 1992 (22 years ago).

Please add at least one reference for the following text:

"The usage of such GIS-based technologies has demonstrated that the majority of tasks can be completed quickly and affordably. It is anticipated that improved GIS modules, faster computers, and more advanced data capture/visualization equipment will eventually be affordable and capable of doing broad and advanced spectrum spatial analysis."

The resolution of Figure 2 is very low. Please provide a map with a DPI of 300. Also, I feel this map is the result of other individuals' studies; please provide a reference.

In the text, there are several instances where references are made to other publications, but they are not included in the references. It seems like the text was copied and pasted. Please paraphrase and reference thay.

Where are the results? You have conducted a review study; therefore, you should present your study results to the readers. Please provide the results section. Additionally, add a title titled "Methodology" before the results.

Also, changing the title to: Recent Trends and Techniques in Landslide Hazard Assessment: A Review.

Highlight the changes in the article's text and respond case by case in this file.

If all the revisions mentioned above are considered, the article is acceptable for publication; otherwise, I recommend a major revision.