

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

Dr. Amrita Mohan

Potential competing interests: No potential competing interests to declare.

1. Abstract section is so general and does not have the scientific structure of the research paper; major contributions are not highlighted. Also, landslide hazard zonation mapping and susceptibility analysis are missing.
2. Keywords should be mentioned in the manuscript.
3. Authors must address the following questions in the introduction section for content improvement:
  - How do landslides, the recurrent and devastating natural phenomena involving the movement of rocks, debris, or soil down slopes, impact economies and communities worldwide?
  - What factors contribute to the initiation and propagation of landslides, and how can advancements in geospatial technology aid in mitigating their risks?
  - What are the primary causes behind landslides, and how do they vary across different geographical regions and environmental conditions?
  - How can advancements in disciplines such as geology, structural geology, engineering geology, hydrology, geophysics, geotechnology, and civil engineering contribute to our understanding and management of landslide risks?
  - Moreover, what role can innovative geospatial technologies play in enhancing our ability to map and analyze landslide hazard zones?
  - How can interdisciplinary collaboration and the development of standardized methodologies help establish more effective strategies for assessing and mitigating landslide risks on a global scale.
  - Fig 3 must be improved by implementing: Integrated risk assessment framework, Early warning systems, Natural resource management, Infrastructure resilience, Data sharing and collaboration
1. In landslide hazard zonation, what are the major contribution factors??
2. Paper contribution is missing.
3. Novel approaches must be discussed, which may include GIS and non-GIS approaches.
4. Fig 2. caption must be written properly, and it must be cited along with Fig 4.
5. Statewise distribution of landslides must also be represented. Also, national and global landslide status must be represented.
6. Explanation of how to characterize intensity, vulnerability, susceptibility, and risk is missing from the manuscript.
7. Proofreading is required to improve the manuscript.
8. The research background about the proposed subject and methods has not been appropriately mentioned. Too many citations. Please remove some old citations and update it with new references such as:

<https://doi.org/10.3390/rs15030596>

<https://link.springer.com/article/10.1007/s11069-022-05554-x>

<https://doi.org/10.3390/su16062240>

<https://doi.org/10.1080/02723646.2021.1978372>

<https://www.sciencedirect.com/science/article/abs/pii/S0169555X23000557>