

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_128186
Title of the Manuscript:	Evidential belief Function (EBF) model Integration with GIS for Landslide susceptibility analysis in Idukki District, Kerala.
Type of the Article	

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	Landslides are among the most significant natural hazards worldwide, often leading to devastating economic losses, infrastructure damage, and even loss of life. This research aims to identify and map regions that are prone to landslides by analyzing key Topographical, Anthropogenic, and Geological factors contributing to their occurrence. By locating these high-risk areas, the study would help to enhance the ability to predict future landslide events such that it would assist in developing various risk mitigation strategies.	
Is the title of the article suitable? (If not please suggest an alternative title)	"Evidential belief Function (EBF) model for Landslide susceptibility analysis in Idukki District, Kerala"	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article seems to be comprehensive. It provides readers with a clear overview of the study's objectives, methodology, and the findings.	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically correct.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references cited in this research cover both foundational studies and recent advancements.	

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The overall quality of English in the article appears to be good. However, there are some sections where the tense is incorrect. It is important to note that the article should primarily use the present tense. This seems to be an issue mainly in the discussion section of the article. Any instances of past tense should be revised for consistency and clarity.</p>	
<p>Optional/General comments</p>	<p>The reason behind taking 70% and 30% training and testing data is missing. What is the reference for taking this? Will there be any effect in the result if these values are altered? How are training and testing data defined? Which ones are taken as training data and which ones are taken as testing data? Introduction about the Dempster-Shafer theory is missing in the introduction section. Rather introduction to landslide is written which seems less important than the actual introduction about the theory. Also, the application of this theory in various fields should be highlighted. Justification about why this particular theory is favoured for landslide susceptibility mapping should be highlighted. The meaning of each function taken into consideration is missing. What do these functions represent in the analysis? How are different values assumed for calculation of the Prediction Rate? How are these values determined? The discussion section seems to be weak in explaining about the various results obtained. The detail meaning of the results obtained should be discussed properly in summary or in detail. Some of the explanations about the parameters used in the formula seem to be missing.</p>	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes. Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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