

## ***Interactive comment on “Exploring the potential relationship between the occurrence of landslides and debris flows: A new approach” by Zhu Liang et al.***

### **Anonymous Referee #1**

Received and published: 8 May 2020

The manuscript titled "Exploring the potential relationship between the occurrence of landslides and debris flows: A new approach" introduces a new way, which combines two susceptibility zoning maps to explore the potential relationship between two geological hazards (landslides and debris flows). The susceptibility assessment models of landslide and debris flow established by random forest have high accuracy and reliable results. Finally, the potential relationship between the two disasters was illustrated by superimposing the two maps, which also provides a basis for further research on the disaster chain. The manuscript is well-written, well-organized and innovative. The content involved in the article is very important in engineering prevention and control, and has certain reference value. For all these reasons, I recommend the article for publica-

C1

tion. However, the presentation of the manuscript can be improved after some minor revisions. 1. There is a problem with the number and order of the figures, and the figures do not correspond; 2. Figure 2 is composed of 5 pictures, but only 4 pictures description; 3. There is a problem with the format of Table 1, 2 and 5, please check; 4. Line 265, Fig8, it should be Fig.8 . 5. Why does Table 7 have 4 common factors and Table 6 not ? 6. The language used in the article needs further refinement.

---

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-127>, 2020.

C2