

## ***Interactive comment on “GIS-based Real-time Framework of Debris Flow Hazard Assessment for Expressways in Korea” by C. K. Chung et al.***

### **Anonymous Referee #1**

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In this paper, authors developed a method to assess debris flow hazard for expressways in a simple way. Even though it is well described and fairly well written, the method seems unreasonable to assess the hazard level correctly. Therefore to be published in the journal, it is required to be revised.

Basically the method results in poor assessment for the hazard based on the real occurrence data as shown in Table 5 as the authors also agreed in their paper. It seems mainly because of the scoring system that they adopted using several attributes. First of all, they included the vulnerability value in the score, but it does not distinguish between the areas of occurrence and those of non-occurrence as revealed in Table 5. Also they did not give an explanation on why they selected the attributes and gave the points according to the evenly divided values without any weightings which is very critical to review the paper.

I also found some typos with incorrect year compared to that in references. The references should be also reordered alphabetically.

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Discussion paper

