

## ***Interactive comment on “Landslide susceptibility mapping of Cekmece area (Istanbul, Turkey) by conditional probability” by T. Y. Duman et al.***

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Thank you for the clarifying response. I guess part of the confusion comes from the headings in Table 1. I would think the heading of the right column should not be  $p(A)$  but  $p(A \text{ and } B_n)$  (the sum of the right column corresponds to  $p(A)$  (Eq.7) and is 0.19 for each characteristic).

I am also still wondering about the addition of the  $p(A)$  (or  $p(A \text{ and } B_n)$ ) values to get the susceptibility map. Just summing the different values does not seem to be correct. The addition rule is  $p(X \text{ or } Y) = p(X) + p(Y) - p(X \text{ and } Y)$ , the last term can be omitted only if  $X$  and  $Y$  are mutually exclusive, which they are not if  $p(X)$  is the landslide probability according to slope and  $p(Y)$  is the land-slide probability according to elevation.

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