

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

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I got somewhat confused about the conditional probability. As I understand A denotes the occurrence of a landslide and B the 'occurrence' of some characteristic such as a certain elevation, slope or soil. B1, B2, ... (which have to be mutually exclusive) denote then all different possibilities for B. $P(A)$ as calculated by Eq 7 should then be the same for any single characteristic (equal the areal fraction of landslides). But how has the final susceptibility map been calculated. On p. 168 it says that this was done using Eq. 7, but as I understand it, Eq.7 can not be used to combine the conditional probabilities based on different characteristics since the different events have to be mutually exclusive (which certain ranges for slope and elevation, for instance, will not be). Could you please clarify these calculations?

Regards, Jan Seibert

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