Natural Hazards
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Discussions

Interactive comment on "Shallow landslide prediction and analysis with risk assessment using a spatial model in the coastal region in the state of São Paulo, Brazil" *by* P. I. M. Camarinha et al.

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The paper is very well addressed and show the potentiality of Fuzzy Logic in analysis of failure susceptibility. However, the comment I would like to post is that there is necessary to balance the deffuzification results when assessing the susceptibility, once the presence of just one unfavored mechanism is enough to make the failure take place, and the absence of the others mechanisms (factors) did not counter-balance the susceptibility, despite the fact the deffuzification will give low values (due to the

absence of the other factors). So, the susceptibility has to be majored to take into account this situation. In other words, you do not have to have several unfavored factors to achieve a critical situation. The presence of only one unstabilization factor can be enough to lead the slope to failure.

In general the paper is a very good piece of work.