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www.nat-hazards-earth-syst-sci-discuss.net/1/C2347/2014/

Natural Hazards and Earth System Sciences
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.

Anonymous Referee #2

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The paper "Shallow landslide prediction and analysis with risk assessment using a spatial model in the coastal region in the state of São Paulo, Brazil" cover interesting topics for NHESS but there are different critical points requiring major revisions (see annotated pdf for specific comments). 1) The choice of the factors and their weighting is not explained and some choices are debatable 2) The fuzzy gamma operator is not explained: for example why a gamma of 0.8? 3) The sections "Results and discussions" and " conclusions" are very difficult to follow, the reader (at least me), is not able to easily evaluate the performance of the method. Apart from the problem of

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using risk maps to validate susceptibility maps (that is not an optimal choice), what the reader would like to know are the % of correctly classified areas and % of misclassified areas. For example looking at figure 10 the results seem not so good: for example in R1, low risk, your model give high and moderate susceptibility.... 4) The fact that this model is limited to translational landslides reduces the significance of the method and makes difficult the comparison with CPRM zonation, which considers many types of landslides.

Please also note the supplement to this comment:
http://www.nat-hazards-earth-syst-sci-discuss.net/1/C2347/2014/nhessd-1-C2347-2014-supplement.pdf

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 5199, 2013.