Interactive comment on “GA SAKe: forecasting landslide activations by a genetic-algorithms based hydrological model” by O. G. Terranova et al.

Anonymous Referee #1

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The manuscript is a good-quality contribution to the current literature.

Some issues should be better focused, with a more extended discussion:

- runoff for unsaturated soils (pag. 1227, line 23), a discussion could be useful with reference to the suction-runoff dependence highlighted by Cuomo and Della Sala (2013, Eng. Geol. Journal) and similar contributions.

- definition of "medium-scale" landslides is not provided. Do you mean medium-size landslide or what? Please refer to any landslide classification for basic definitions.

- a special characteristic of shallow soil covers in Campania region is not much evidenced: that is the unsaturated conditions of soils, whose suction is seasonally variable. For this issue, you can summarise the main results of Cascini et al. (2014, Landslides) about the seasonal effects of rainfall and soil suction for slope stability.

Interactive comment on Geosci. Model Dev. Discuss., 8, 1225, 2015.