

## ***Interactive comment on “Application of GA-SVM method with parameter optimization for landslide development prediction” by X. Z. Li and J. M. Kong***

**Anonymous Referee #2**

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It is difficult to accurately predict the development tendency of complicated landslide in practice because of the influences of many different factors. The manuscript presents GA-SVM method with parameter optimization in landslide development prediction. And good prediction result has been obtained by applying this method to a typical large-scale landslide of hydro-electrical engineering area in SW China. In my opinion, this study is of high value on both theory and disaster-mitigation practice by providing some valuable reference and guidance for deformation prediction of complicated landslides. However, the applying condition of GA-SVM method should be further explained, for example, the required amounts of sample data. In order to improve the scientific quality of the manuscript, more content should be discussed in section 5. For example, the deformation features, influencing factors and monitoring data of the complicated

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landslide should be discussed except for the features and prediction effect of the GA-SVM method. In addition, in terms of the manuscript writing, there are some misspelled words and grammar errors that should be checked carefully and revised accordingly. For instance, in line 21 of page 5303, the word “focus” should be corrected into “focuses”, and in line 13 of page 5304, the word “showed” should be expressed as “shows”.

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