Reviewer’s report

Title: Identification of influential observations in high-dimensional cancer survival data through the rank product test

Version: 0 Date: 08 Oct 2017

Reviewer: Wei Zhang

Reviewer’s report:

In this manuscript the authors proposed a Rank Product method to rank the residuals of each sub-model based on different number of selected genes on the same group of samples to identify the outliers for the survival analysis. The work may important to those with closely related research interests, however, more experiments are required to evaluate the proposed model.

1) Both Rank Product and regularized survival model have been proposed before, the contribution of the model is limited.

2) The experiment is not comprehensive to show the importance of the model and lack of baseline method to compare with.

3) The authors claimed the method can identify the outliers in the high-dimensional space, however, 517 samples cannot be considered as a very large number in the survival analysis. In addition, the sub-models assumes that the important genes have been identified.

Level of interest
Please indicate how interesting you found the manuscript:

An article of limited interest

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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