Review of: "Flood Prediction Using Artificial Neural Networks: A Case Study in Temerloh, Pahang"

Patricio Perez[1]

1 Universidad de Santiago de Chile

Potential competing interests: No potential competing interests to declare.

It is interesting to study aimed at predicting (or forecasting?) a flood. But the presented paper requires a number of improvements before publication.

First of all, it needs to be clarified if the developed model is a prediction or forecasting model. I believe that it will be useful to anticipate the occurrence of a flood, in which case a forecasting model would be pertinent. If this is the case, it is necessary to explain at what time the input variables are considered.

It will be convenient to explain what the authors mean by stream flow and water level. Is this measured in a river?

With respect to the results, the accuracy based on the confusion matrix is tricky, because according to the database, the great majority of days considered do not register floods, and it is obvious that predicting or forecasting no flood is easier (if the percentage of no-flood days is of the order of 90%, by predicting no flood, you will have a good chance to hit). However, from the matrix, it is evident that of the 9 flood days observed, 5 were missed by the model.