

Interactive comment on “Optimising training data for ANNs with Genetic Algorithms” by R. G. Kamp and H. H. G. Savenije

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Hello,

First I want to say that this is a very interesting and attractive article. However, I have some remarks/doubts that I would like to share with you:

- How did you make sure that the new input data generated by the GA are valid (and realistic) inputs?. You can constraint the solution of the GA but still I am not sure that the obtained solution will be a physically possible solution.
- Are you sure that the ANN is not getting overfitted? Did you test that the ANN having the lowest RMSE was also the best ANN to predict the discharge? Did you use "early stop" during the training of the ANN?
- Finally, I think that you should stress that this optimisation is done for a given ANN

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configuration and that it is a pre-requisite to explore different ANN configurations and find out the best one before using the GA. what do you think?

Hope that these comments are useful to you, Kind regards,

Raul Zurita

Interactive comment on Hydrology and Earth System Sciences Discussions, 3, 285, 2006.

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