

Interactive comment on “Predicting the residual aluminum level in water treatment process” by J. Tomperi et al.

J. Tomperi et al.

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Thank you for your valuable comments to our paper. We have made the minor improvements and clarified some details you suggested.

We would also like to reply some of your comments.

"In general, no comment is made about the fact that blackbox modelling of an existing plant has the disadvantage that no independent variables can be correlated. The plant is controlled by an operator who influences the dataset. In fact the ANN describes the existing operations rather than the process." - Yes, yet the operator cannot affect for example raw water temperature or potassium permanganate value.

"In the paper several times PAC is used. What is the meaning of PAC:" - PAC stands

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for poly-aluminium chloride.

"What is the definition of "evident outliers"???" - Values that were not realistic were treated as evident outliers. For example water pH cannot be, let's say 50 or temperature 200 C.

"Explain why this configuration of the ANN is used (and not another)" - The same configuration as in the earlier study was used to make the comparison of results more reliable.

"Water temperature cannot be influenced, so what is the control action to be taken to diminish the residual aluminium level?" - Aluminum dosing and other process conditions (pH, mixing of coagulants) that have been found to affect the residual aluminum level should be optimized.

Interactive comment on Drink. Water Eng. Sci. Discuss., 5, 243, 2012.

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