

Scientific research by Dr. Ruba Dahham Al-Saeed in the British magazine (International Journal of Water - UK - Q3)

Research Title:

Predicting aluminium using full-scale data of a conventional water treatment plant on Orontes River by ANN, GEP, and DT

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Abstract :

Aluminum Sulphate (Alum) is one of the common coagulants , and it is related with increasing aluminum residuals . which is associated with Alzheimer's disease. This study focused on the relation between aluminum and some parameters related to water quality. Three different methods were used , ANN , GEP and DT. ANN gave the best results when raw a=water turbidity was 6.5 to 30 NTU. and GEP was better when initial turbidity was 30 to 60 NTU. ANN was the best with $R^2 = 0.88$, and $RMSE = 0.0189$ mg/L. and GEP was the most easily generalized.

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