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### Artificial Neural Network Model to Prediction of Eutrophication and Microcystis Aeruginosa Bloom

... Empirical models assume a causal relationship between the response and the process drivers, but often use the data alone for characterization of the modelled response. Empirical models based on the artificial neural network have been developed and applied to forecast cyanobacteria occurrence and growth conditional on environmental variables such as temperature, pH, phosphorus and nitrogen (Bowden et al., 2005a(Bowden et al., , 2005bGuzel, 2019;May et al., 2008;Pyo et al., 2020;Sen et al., 2018; **Srisuksomwong and Pekkoh, 2019**). To avoid the time lag problem of the availability of real time algal bloom information, Ibelings et al. (2003) used a modeling approach based on long-term weather forecasts to predict surface water bloom formation. ...


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... Recently, forecasting models for algal bloom occurrences and counts have been developed based on Artificial Neural Networks (ANN) (Guzel, 2019; Sen et al., 2018; **Srisuksomwong and Pekkoh, 2019**). Such models can be susceptible to mimicking the training data characteristics resulting in over-fitting and hence producing inferior results with new data. ...

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