

# 預測颱風之水庫濁度-以石門水庫為例

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## 摘要

Every monsoon from May, the typhoon may bring high turbidity in Shih-Men Reservoir to cause the serious shortage of water supply. This study presents the artificial neural networks (ANNs) and ARIMA model to predict the turbidity in Shih-Men Reservoir and several water treatment plants. It also estimated the time when the highest turbidity occurred due to the rainfall in the upper catchments. We used ARIMA model to forecast the turbidity of the water treatment plants, which is useful during the periods of serious shortage of water supply.

關鍵字：Neural Network, Predict the Turbidity, time-series