



<b>Thesis Title</b>	Weather Forecasting Model using Neural Networks A Case Study of Meteorological Department of Thailand
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### **ABSTRACT**

The weather forecast is useful for human in planning some activities such as rainfall forecast for water resource management and so on. The problems occurring from the effects of related water issues will give damage to life and asset of human if weather forecast is not handled properly. This study aims to find out and develop method and technology for the weather forecast. This thesis presents an algorithm for input feature extraction and time-series forecasting by using the Finite Impulse Response (FIR) with hamming window function and data dividing using neural networks. The experimental results for rainfall forecast receive high accuracy when comparing with other methods. The study uses weather data from the Meteorological Department of Thailand and the United States of America.