

## **Crude Oil Price Forecasting Using Hybrid Support Vector Machine**

### Abstract

Crude oil price is strongly impacting the world economy. However, it is very fluctuated and difficult for investor to make decision. Hence, forecasting is one of the ways to minimizing risks arise from indecision on future. This paper will apply Support Vector Machine (SVM) and Artificial Neural Network (ANN) and a proposed hybrid model name Empirical mode decomposition-Support Vector Machine (EMD-SVM) forecasting crude oil price. After obtaining the forecasting result, performance evaluation is carry out to show which method can better forecast the crude oil price. The result shows that the performance of crude oil price forecasting can be significantly increased by using the proposed hybrid EMD-SVM model. Thus proven the hybrid model are out-perform than individual forecasting model.