



The Wave Height Prediction in Java Sea using ANFIS and Supported by Android as User Interface

Syamsul Arifin^{*1}, Aulia Siti Aisjah² and Heru Susanto³

^{1, 2, 3} Engineering Physics Department, Institut Teknologi Sepuluh Nopember, INDONESIA
(E-mail: syamp3ai@its.ac.id, syamp3ai@gmail.com, auliasa@ep.its.ac.id, auliasa20@gmail.com)

INTRODUCTION

Adaptive Neuro Fuzzy Inference System (ANFIS) is one of the machine learning algorithms that is widely used for various decision making, and one of them is to predict. ANFIS as a hybrid expertise system, a combination of ANN and FIS, is widely used for forecasting weather variables and sea climate, including for forecasting wind speed, significant wave height in the north sea [1]. Maritime weather prediction is needed by sea users, especially for fishermen, in relation to determining their shipping schedule [2]. Several maritime weather predictor methods have been used by many previous researchers, in various cases, for example the prediction of extreme wave heights in the South China Sea, used a Peaks-Over-Threshold (POT) analysis, wave height predictions in Japanese waters. [3], [4]. Both methods are based on mathematical models. The method for predictors is based on AI namely the ANN methods [5], and Fuzzy – NN [6]. Development of methods for predicting maritime weather in the Java Sea, carried out with the ANFIS method. Predictors are designed, based on input data of wind speed, the wave height in the present and in 1 hour before. Data for training using in hourly data of wave heights from BMKG in 2014-2015. The two input variables are expressed in the form of fuzzy variables with the bell membership function. The predictor results are displayed via the android user interface. The real weather database is stored in mySQL. This database is automatically updated when the predictor system on the server is operated. Interconnecting predictors with the user interface is shown in Figure 1 below.

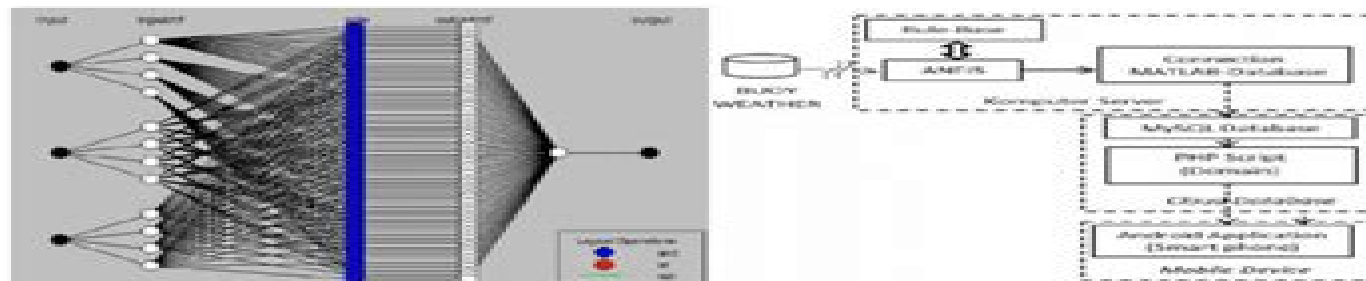


Figure 1. (a) ANFIS Architecture of Significant Wave Height Prediction, (b) Interconnection Predictor of Wave Height System

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