DESIGNED OF WEATHER PREDICTOR SOFTWARE BASED FUZZY LOGIC

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Abstract

The methods for weather prediction has improved a lot both conventional as well as in a modern linear regression such as ARMA and ARIMA. This is done to enable people to plan their lives as planting, harvest plans and the disruption of natural disasters. However, problems that occurred in some of these methods is the lack of accuracy of weather prediction. So we need a method that could overcome the prediction accuracy. In this study, designed a software predictor of the weather using Fuzzy Logic. In the process of prediction, there are three main inputs, temperature (Singa), relative humidity (Kulim), and wind speed (Kupa) and its developed. Three inputs are used to predict the weather five parameters. From the data processing software, acquired measurement event results "present weather" has a value of 82.9% accuracy. Meanwhile, the measurement prediction event "current weather" is equal to 82.69%. For the measurement of event prediction "weather the next hour" is equal to 80.40%. In the validation process, the accuracy result of temperature and humidity are 97.36% and 80.33%. Based on these results, it needs some other weather variables are used to improve the accuracy of weather.

Keyword - weather, Fuzzy, accuracy