

ABSTRACT

Prediction is a method that is currently widely used. Some examples of using prediction methods are weather prediction; water wave prediction; until predicting parking space availability. This prediction is based on problem that arise in an environment. One problem that has received attention is the distribution of air pollution.

The distribution of air pollution in an area can have different characteristics. This can be influenced by several factors, including air pressure, type of air pollution, location conditions, and many other factors. The use of predictive method is adjusted to the problem and characteristics of the method. The prediction is used to know about the level of air pollution in an unknown location between 2 sensor station or more which has a level of air pollution. In this study, Kriging interpolation method was used to predict the distribution of air pollution.

Because the distribution of air pollution is affected by the wind, in its implementation, Kriging interpolation has been improved. Because the position of the sensor station makes a grid layout and has a constant distance, it is expected to produce a simpler calculation process with accurate results from the improvement way.

Keywords: air pollution, prediction, interpolation, Kriging.