

ABSTRACT

In this era of increasingly widespread innovations, technological developments are very rapid. Technology is something that is implemented as a tool to support various human activities. In water resources cultivation activities, many technologies are used to facilitate cultivation activities. For example, in the case of controlling solar and electrical resources in an aquarium based on forecasted weather conditions. With the rapid technological advances on the Internet of Things field, a tool can be created to control aquarium resources in an effective and precise way and calculation. So that the change of resources based on the weather used by the aquarium is more accurate, a Fuzzy Logic method is needed. Three parameters are used to determine weather conditions, namely temperature, humidity, and light intensity, all of which can be used as input for the Fuzzy Logic process. So, from the processes and rules on fuzzy results obtained that can determine the weather forecast. From the weather forecast, the tool determine which solar or electrical power resource should be used in the aquarium. The accuracy of this tool in detecting the weather has a minimum accuracy value of 60%.

Key words : *Fuzzy Logic, Aquarium, Weather Forecast*