

ABSTRACT

Indonesia is an agricultural country because most of the population are farmers. So, it takes the latest innovations to help the people in farming. Many automation and monitoring systems in agriculture do not have a calculation system for watering based on weather. Of these issues will be discussed weather calculation system using fuzzy logic algorithm for General Farming Automation.

The weather calculation system works by taking a weather prediction data from the Weather Service Provider (WSP). Furthermore, it also retrieves soil moisture sensor value and rainfall sensor value. After that, the system will calculate using fuzzy logic algorithm whether the plant should be watered.

The weather calculation system will help the performance of the General Farming Automation Control System in order to work automatically. The system can do watering for plants based on weather prediction with accuracy of fuzzy role 100%. So, the plants still obtain water and nutrients are not excessive.

Keywords: Watering, Weather, Weather Service Provider, Fuzzy logic, General Farming Automation