ABSTRACT

Checking or regulating the manual irrigation system is certainly inefficient for farmers considering that there are still many farmers in Indonesia who still use conventional irrigation tools. This makes farmers spend more time and energy in irrigation. Growth and fertility in plants, one of which is influenced by the irrigation system. A good irrigation system is an irrigation system that is in accordance with the labor on the plant itself. So a system such as a smart irigation system is designed that can regulate and monitor the irrigation system automatically. With sensors that can identify humidity and water levels so that they can provide appropriate needs to plants. The method that will be used is the Decision Tree classification method, which will help the system in terms of data processing and classification. Which is expected to get accurate and better results.

Keywords: identification, methods, classification, system.

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