Rancang Bangun Alat Monitoring Cuaca Portable Dengan Rekomendasi Perlakuan Pada Tanaman Berbasis IoT

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Abstract

Weather conditions in an area can be assessed based on several parameters such as temperature, humidity, air pressure, and wind speed. Changes in climate conditions can have a negative impact on plants because some types of plants cannot grow in certain seasons. Changes in climate conditions can threaten the crop production system, causing unstable harvests. The purpose of this study is to create a tool that can monitor the weather and recommend plants based on the season, so that it will help maintain the stability of the harvest. The decision to determine plant recommendations is made based on smoothed sensor data. The method used to provide these plant recommendations is fuzzy logic. The results of this study can provide weather information so that it can provide recommendations for plants that are suitable for certain seasons with a system accuracy of 90%. So that with this tool it can help maintain the stability of the harvest according to the current season.

Keywords: Weather Station, Plant Recommendations, Internet of Things