

# REKAYASA SISTEM PENAMBANGAN DATA CUACA UNTUK PEMANTAUAN PERKEMBANGBIAKAN PENYU DI PESISIR PANTAI SELATAN DIY

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## ABSTRACT

The problem of turtle management in Indonesia is faced with a fairly complex situation and involves many stakeholders. Universities are one of the stakeholders who have a big role in the effort to conserve turtles through research and development programs in an effort to conserve turtles from upstream to downstream.

This research is a continuation of research in previous years. In 2020-2021 research will focus on developing an engineering prototype of an Internet of Things-based weather sensor system for monitoring turtle breeding on the southern coast of the Special Region of Yogyakarta. The device developed is a sensor system hardware that can detect environmental temperature and humidity conditions (air and sand) which can be monitored and controlled remotely through an android application or web browser. The digital signal processing software developed is application software that can present measurement results in the form of graphs of temperature and humidity, as well as several other parameters related to weather conditions on the coast. In 2022 research will focus on weather data mining systems from application software that have previously been created. Thus, the data can be used to monitor weather conditions on the coast, so that the weather data can be taken into consideration in making decisions regarding the conservation of turtle hatching eggs.

The research method used is descriptive analysis method with a quantitative approach. This means that the research carried out is to emphasize the analysis on numerical data (numbers), which aims to get a clear picture of a situation based on the data obtained by presenting, collecting and analyzing the data so that it becomes new information that can be used to analyze the problem. being researched.

Kata Kunci: *prototype, Internet of Things, weather, data mining*