

# OTOMATISASI MONITORING DAN PENGENDALIAN SUHU KELEMBAPAN MENGGUNAKAN METODE *FUZZY LOGIC* PADA KANDANG AYAM RAS PETELUR DI GUMUKMAS JEMBER

**Nila Amalia**

Program Studi Teknik Informatika

Jurusan Teknologi Informasi

Email: [nilaa3798@gmail.com](mailto:nilaa3798@gmail.com)

## ***ABSTRACT***

*Coops for laying hens require proper temperature and humidity settings so that environmental conditions remain suitable for maintaining the health and productivity of the chickens. Temperature and humidity settings carried out manually by breeders can cause instability and inaccuracies in setting the cage environment. Therefore, it is necessary to automate monitoring and controlling humidity temperature in laying hen cages.*

*The fuzzy logic method is used in this research to create an automatic control system that can regulate temperature and humidity in laying hen cages. Temperature and humidity data is collected using sensors and processed using the fuzzy logic method to determine the appropriate control output. The resulting control system can regulate the temperature and humidity in the laying hen cage automatically.*

*This research was conducted in a cage for laying hens in Gumukmas Jember. The results of the research show that the automatic control system created can regulate the temperature and humidity in the laying hen cage well. With this automatic control system, farmers can monitor and regulate the cage environment more effectively and efficiently, thereby increasing chicken productivity and reducing the risk of chicken death. By integrating the fuzzy logic method, this research contributes to the development of automation technology for rearing laying hens.*

*Keywords: IoT, temperature and humidity, laying hens, fuzzy logic*