

## **ABSTRACT**

*Cats are one of the most popular and well preserved pets. Cat nurturers come from a variety of different backgrounds. Because of this, problems arise in the way of maintenance and care of cats, one of the problems that arise is the difficulty to be able to give an ideal portion of food to the cat every day. From this problem, in this research is made an ideal portion control system feeding the cat using the Fuzzy method Inference System Mamdani. The system that is made is expected to control the ideal eating portion for the cat every day, so that the risk of cats experiencing malnutrition or obesity can be reduced because the portion of food consumed daily can always be controlled.*

*In this study, a portion control system eating ideal cats can only be used by 1 cat tail. The results of the research show that the system can be accurate in any feeding to the cat, where its accuracy value reaches 100%. In addition, the system can also control the portion of the meal given to the cat with the ideal portion every day with a value of the accuracy of success reached 87.5%.*

**Keywords:** *Fuzzy Logic, Fuzzy Inference System, Mamdani*