

***FUZZY TSUKAMOTO IMPLEMENTATION TO DETERMINE THE ELIGIBILITY OF PROSPECTIVE
DORMITORY OCCUPANTS***

(Case Study: TAPAK BADANG DORMITORY, KARIMUN YOGYAKARTA REGENCY)

ABSTRACT

Student dormitories are built as a place to live for groups of students and students who carry out the same task or activity. The Tapak Badang Dormitory is a student dormitory from Karimun Regency which consists of approximately 30 current residents, consisting of students studying at several universities in Yogyakarta. The problem that occurs today is that there is increasing interest for students who want to live in this Tapak Badang dormitory so that the hostel manager must choose students who are appropriate according to the conditions of the students to live in this dormitory. To overcome this problem, this research creates a website-based system by applying the Fuzzy Tsukamoto method of calculation, the aim is to be able to optimize the selection for the residents of the dormitory who will live in the Tapak Badang dormitory appropriately. Economic factors from the student's family can be used as the main reference to determine students who are eligible to be accepted. The inputs needed in the system include the variable the amount of parental income of the student per month, the regional test of the student and the distance from the dormitory to their campus and the output is the final result that the decision is accepted with a final score of more than 75.

Keywords: Determination of dorm residents, Tapak Badang Dormitory, Fuzzy Inference System (fuzzy inference system), Tsukamoto Method, Variable, Accepted Decision.