

# **SISTEM PAKAR UNTUK MENGETAHUI TINGKAT KECEMASAN MAHASISWA DALAM MENYUSUN SKRIPSI MENGUNAKAN METODE MULTI FACTOR EVALUATION PROCESS DAN INFERENSI FUZZY TSUKAMOTO**

## **ABSTRAK**

Kecemasan yang berlebihan dapat menyebabkan mahasiswa mengalami masalah psikosomatik, Skripsi atau Tugas Akhir merupakan salah satu faktor yang menimbulkan kecemasan mahasiswa, diawali pada saat mengisi Kartu Rencana Studi (KRS), belum ada gambaran studi kasus apa yang akan diambil dalam menyusun skripsi, terkendala dalam konsultasi dengan dosen pembimbing skripsi dalam bertatap muka, mahasiswa menghilang tidak ada kabar dan hilang kontak dengan dosen pembimbing skripsi. Hal tersebut menjadikan mahasiswa terlambat untuk lulus dari waktu yang seharusnya.

Dalam penelitian ini, Peneliti bertujuan untuk membuat prototipe sistem pakar yang memberi gambaran tentang tingkat kecemasan mahasiswa dalam menyusun skripsi metode *MFEP* dan *Inferensi Fuzzy Tsukamoto* dalam 3 (tiga) variabel yaitu Aspek Psikologis, Aspek Somatis dan Aspek Fisik dengan indikator kecemasan tinggi, sedang, rendah.

Berdasarkan hasil pengujian yang telah dilakukan, dengan 52 data uji, baik prototipe sistem (*MFEP* dan *fuzzy Tsukamoto*) dan pakar memiliki hasil 42 data (81%) sesuai dan 10 data (19%) tidak sesuai, sehingga dapat disimpulkan unjuk kerja sistem berhasil.

Kata kunci : *Kecemasan, MFEP, Inferensi Fuzzy Tsukamoto, Sistem pakar.*

# **EXPERT SYSTEM TO CALCULATE THE ANXIETY LEVEL ON STUDENTS IN WRITING THESIS USING MULTI FACTOR EVALUATION PROCESS METHOD AND FUZZY INFERENCE SYSTEM WITH TSUKAMOTO**

## **Abstract**

Intense anxiousness could trigger human to experience psychosomatic syndrome. In student case, writing thesis is one of the reasons which possibly turn on their intense anxiousness. The emergence of anxiousness in student might be caused by many conditions. It may arise first when students fill in their study plan card yet they have no idea of what topic they should bring up. It also can appear when they find difficulties in dealing with the lecturers, or on the contrary, the students have drawn themselves in their other businesses and then loss contacts with the lecturers. Those many justifications often hinder students to graduate just in time.

On this research, the researcher aim to generate expert system prototype which could show a brief explanation on student's anxiousness level in writing thesis by using MFEP method and Fuzzy Inference System with Tsukamoto and focusing on three different variable which are pshycology aspects, somatic aspect, and physical aspect. In terms of categories, the researcher define them into 3 level of anxiousness indicator which include high, medium, and low.

Based on the result of the research, by using 52 research data, both prototype system (MFEP dan fuzzy Tsukamoto) and expert system, it shows that 42 data (81%) is matching and 10 data (19%) is not matching, thus it can be concluded that the work system is accomplished.

Keywords : Anxiousness, MFEP, Fuzzy Inference with Tsukamoto, Expert System.