

**IMPLEMENTASI ALGORITMA FUZZY LOGIC PADA PENILAIAN  
KELAYAKAN SISTEM PERKREDITAN MOTOR PT FEDERAL  
INTERNATIONAL FINANCE DENGAN MENGGUNAKAN METODE  
MAMDANI**

**A'ANG NUR ROCHIM**

(Pembimbing : T. Sutojo, S.Si, M.Kom)

*Teknik Informatika - S1, FIK, Universitas Dian Nuswantoro*

*www.dinus.ac.id*

*Email : 111201206597@mhs.dinus.ac.id*

**ABSTRAK**

Kebutuhan akan alat transportasi semakin hari semakin meningkat. Transportasi yang sering digunakan masyarakat adalah sepeda motor karena efisien dan cara cepat dalam mengatasi kemacetan di jalan. Khusus untuk masyarakat kalangan menengah kebawah biasanya mengandalkan badan perkreditan untuk membeli sepeda motor. Salah satu badan perkreditan di Indonesia yang melayani kredit sepeda motor adalah PT Federal International Finance. Namun didalam penerapan sistem kredit sering terjadi kredit macet. Untuk itu untuk mengendalikan kredit macet tersebut bisa dilakukan beberapa teknik salah satunya adalah teknik preventif. Terdapat beberapa kriteria yang biasanya digunakan dalam teknik ini, yaitu teknik 5C dalam prinsip kredit. Terdiri dari Character, Capacity, Capital, Collateral dan Condition. Dengan mengimplementasikan algoritma fuzzy logic dengan menggunakan metode Mamdani diharapkan akan membantu dalam pengendalian kredit macet. Laporan tugas akhir ini akan menjelaskan bagaimana menerapkan metode fuzzy Mamdani pada sistem perkreditan motor. Hasil pengujian akan dijelaskan pada bagian akhir laporan.

Kata Kunci : Algoritma Fuzzy Logic, Fuzzy Mamdani, Kredit Motor, FIF

# **IMPLEMENTATION OF FUZZY LOGIC ALGORITHM FOR FEASIBILITY ASSESSMENT OF MOTORCYCLE CREDIT SYSTEM AT PT FEDERAL INTERNATIONAL FINANCE USING MAMDANI METHOD**

**A'ANG NUR ROCHIM**

(Lecturer : T. Sutojo, S.Si, M.Kom)

*Bachelor of Informatics Engineering - S1, Faculty of Computer Science, DINUS University*

*www.dinus.ac.id*

*Email : 111201206597@mhs.dinus.ac.id*

## **ABSTRACT**

The need for transportation is increasingly rising. Frequently used public transportation is a motorcycle for an efficient and fast way to solve congestion on the roads. Especially for middle-class people usually rely on credit agencies to buy a motorcycle. One credit agency in Indonesia that serves the motorcycle loan is PT Federal International Finance. However, in the implementation of the credit system frequent bad credit. For that to control bad debts can be done a few techniques one of which is a preventive technique. There are several criteria that are usually used in this technique, the technique 5C in the principle of credit. Consisting of Character, Capacity, Capital, Collateral and Conditions. By implementing algorithms using fuzzy logic Mamdani method is expected to help in controlling bad loans. This final report will explain how to apply fuzzy Mamdani method in the credit system of the motor. The test results will be described in the final section.

Keyword : Fuzzy Logic Algorithm, Fuzzy Mamdani, Motorcycle Credit, FIF