

**Perancangan Sistem Klasifikasi Penerimaan Masyarakat Mengenai Mobil
Sesuai Kebutuhan Dengan *K-Nearest Neighbor (K-NN)-Certainty Factor*
(*Design of Community Acceptance Classification System Regarding Car
Needs With K-Nearest Neighbor and Certainty Factor*)**

Khafidurrohman Agustianto, S.Pd, M.Eng as Chief Counselor

Willian Refky Firmansyah
Study Program of Informatics Engineering
Majoring of Information Technology
Program Studi Teknik Informatika
Jurusan Teknologi Informasi

ABSTRACT

Based on the results of interviews and observations made at the Nissan Probolinggo dealership, 6 parameters were obtained to be used as variables in the study. The methodologies used in the research include requirements analysis, system design, implementation, and testing. The algorithm used is K-Nearest Neighbor and Certainty Factor. In the K-Nearest Neighbor method, it runs based on the training data tested and the number of data from the nearest neighbors or the number of K. While Certainty factor is a method that runs based on the assessment of experts in their fields, in this case, is a car expert. This system generates a classification for the new data and the confidence value of the inputted data. The accuracy of the KNN method used for classification is 80%.

Key words: *k-nearest neighbor, certainty factor, car, classification system.*