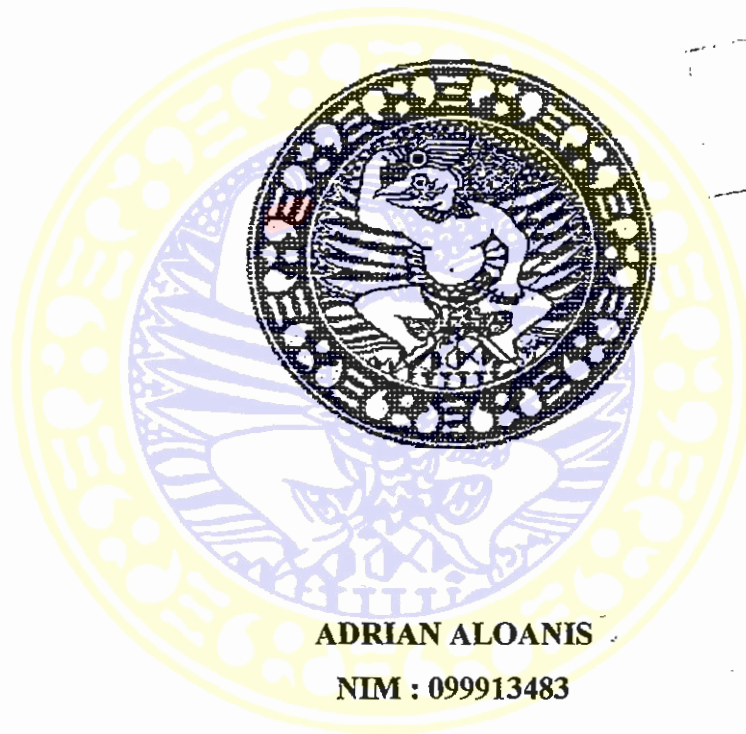


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TESIS

**PERBANDINGAN KESIMPULAN HASIL ANALISIS
DISKRIMINAN FISHER'S DAN KERNEL**



**PROGRAM PASCASARJANA
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TESIS

Untuk Memperoleh Gelar Magister
dalam Program Studi Ilmu Kesehatan Masyarakat
Minat Studi Biostatistika
Pada Program Pascasarjana Universitas Airlangga

Oleh :


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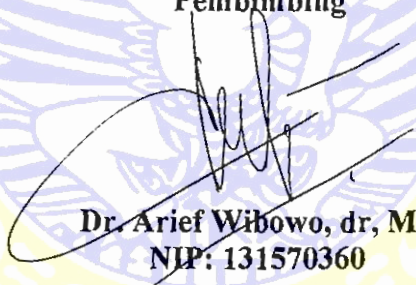
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ABSTRACT

This study was an applied study aimed to descriptively compare result conclusions of Fisher's discriminant analysis (linear approach) and Kernel (non-linear approach) from the percentage of misclassification.

Population in this study was lawn tennis athletes consisting of sixth-semester male students of Manado State University School of Sports participating in tennis class in the year 2001. Samples were taken randomly from the population.

Variables comprised two variables, i.e., dependent variable and independent variables. The dependent variable was lawn tennis skill, consisting of two categories, good and fair skill. The independent variables comprised eleven variables, i.e., waist strength, hand muscles strength, leg muscles strength, grip strength, back muscles strength, leg muscle endurance, Vo_2 max, speed of run in the 50 meters, hand reactions, and agility.

Results showed that Fisher's discriminant analysis approach was better than that of Kernel because it met the condition of multinormal distribution and it was supported by the result of misclassification in discriminant analysis of 0%, and in Kernel with dissimilar covariance matrix of 2.48%. In addition, the use of proportional Chance Criteria (Cp_2) and maximum Chance Criterion (MCC) also showed that Fisher's discriminant analysis approach was better than that of Kernel.