ABSTRACT

Humans can identify or recognise and classify a pattern, but the pattern is always changing so it could be said that pattern is not fixed or static. Still the same pattern can be recognized as the correct pattern. Just as in humans, humans can know but unlike the computer, along with the development of computer technology allows such things can occur also on a computer, technology introduction or detection became very in the estimate, one is the detection of gender (gender recognition), gender detection of course very necessary in some applications, such as the entrance to a place based on sex or gender.

On the research of this Thesis, we have built a system that can detect gender (gender recognition) that enables a computer to identify the sex of male or female. This design will be built on systems of classification method of Support Vector Machine in which haybrid (SVM) will be combined with Radial Base Function (RBV) later that method allows the system can work optimally and efficiently.

In this system, we get the test which shows that clasification using hybrid Support Vector Machine (SVM) method with Radial Basis Function (FRB) kernel, from the test results, it can be concluded that results of the process of classification of SVM-RBF is, by using the sigma 5 gain accuracy rate of 69%, from facial image data 375.

Keywords:*Gender Recognition, Support Vector Machine (svm), Radial Basis Function (RBF), Hybrid*