Abstract

Computerization technology development takes over the conventional writing method, but this way will survive as long as paper writing is more comfortable and gives the happiness than keyboard writing or PC table writing. For bridging this case with technology development, we need a system to recognize hand writing which is able to change this hand writing become a computer text format. This case encourages a lot of research about hand writing recognition. For this moment, none of those researches are able to replace the perfection rate of human semantic ability.

Using SVM as learning method in the system will helps determination of the best hyperplane which is separating word character classes of hand writing. The problem is the accuracy rate of data classification become not optimal when the testing hand writing data is very different from the existing system.

With using *Biased Regularization* on SVM (BRSVM), accuracy rate from testing for the data can be increased with refracting the general risk that is appear in hand writing recognition SVM.

Keyword: *Hand Writing Recognition, BRSVM, SVM, Biased Regularization*