ABSTRACT

Cows are livestock members of the Bovidae family and the Bovinae sub family [1]. Cows are raised mainly for their use of milk and meat as human food. Cows are commodities that are widely traded. Along with the increasingly rapid population growth, the demand for products from cows has also increased, especially in terms of demand for meat, milk and skin. The yield of cow products is influenced by cattle care and cattle weight. In carrying out the weighing of cattle body weight, there are still many conventional methods. If every time you weigh using conventional methods, it is certainly not practical.

In this final project Matlab-based application has been made to help determine the weight of cattle using image processing methods, which are equipped with registration methods based on the Deformable Template method using the Multiclass Support Vector Machine (SVM) classification.

Obtained an accuracy rate of 76,1905%. The results of this study are expected to be able to help cattle business players in the right standard of accuracy in knowing the weight of cattle.

Keywords: Fattening Cattle, Image Processing, Image Registration, Deformable Templates, Multiclass Support Vector Machine (SVM).