ABSTRACT

Zoo is a tourist attraction or a recreation area which in there are a wide range of animal protection as it has been entered in the category of protected or unprotected. As a tourist attraction frequented by tourists, the zoo should continue to improve existing facilities and provide innovation so that the interest of tourists to come is growing.

Therefore, through this final project, has been implemented Android mobile application's Tour Guide for increase the interest of tourists to come. Tour Guide's app is using features HOG + SVM to detect motion (motion tracking) and perform recognition of the object (animal) so that app can display information about the animals.

Based on the testing with bull and camel, Tour Guide's app can detect the movement of animals with the acquisition of 13.33% - 16.67% accuracy for the bull and an accuracy of 30% - 36.67% for the camels.

Keywords : computer vision, tour guide, mobile application, HOG+SVM, motion tracking, animal detection