

ABSTRACT

Cheese is processed food that made from fermented milk. In the daily life, is used as a food ingredient because it contains many animal protein which are have much of beneficial for human body. However, if this food is consumed too much it will have negative effect on body. That is why, before it will be consumed, so we have to know about their quality product.

In this final project, the writer want to design a software that can identify cheese quality based on color, shape and texture. Identification technique used via digital image by using camera, Then image of query is processed by method. Then the characteristic data were studied, so that can be determine about classified of cheese quality.

From this final task research the author used several samples of cheese from several various qualities, the high quality into the low. The design research with android-based application sistem and get an accuracy of 85.42%. So people should know the condition of the cheese before consumed.

Keywords: Content based image retrieval, K-nearest neighbor