

Abstract

Image segmentation is the process of dividing images into several regions that are defined by certain criteria to be used for other purposes. This study segmented bone scan images. Bone scan image segmentation is divided into 4 (four) defined parts, the parts is head and spine, arms and clavicles, thighs and pelvis, and chest. The segmentation process in this study uses the Active Appearance Model method to detect these defined parts. The model built by the Active Appearance Model consists of the Shape Model and the Appearance Model. After that the model is used for the AAM Fitting process for the test data. The testing process in this study use the Fold Cross Validation scheme with 6 (six) Fold and tested 10 (ten) times. The results of segmentation in this study resulted in an average error value of 0.027965649.

Keywords: Segmentation, Bone Scan, Active Appearance Model.