

Abstract

On this final project, motion detection is done by using the feature detection results. A movement can be seen from the change information of the amount or position of feature. Feature detection is done by using SUSAN (Smallest Univalve Segment Assimilating Nucleus). SUSAN method differs from other methods, this method does not use derivative functions like other methods, but in a way to find univalve segment assimilating nucleus (USAN) through differences brightness. So that this method has advantages compared with other methods, this method is more accurate in terms of localization, more robust against noise, more quickly and have a pretty good reliability. It is expected that with SUSAN can produce a motion detection system with a good ability in terms of speed, accuracy and resistance to environmental change factors. Motion detection system works in realtime with a webcam connected.

Keywords: *webcam, feature detection, motion detection, brightness, realtime*