Abstract

This work reports the design of a continuous hand posture recognition system. Hand tracking and segmentation are the primary steps for any hand gesture recognition system. The aim of this paper is to report a robust and efficient hand segmentation algorithm where a new method for hand segmentation using different colour space models with required morphological processing are utilized. Problems such as skin colour detection, complex background removal and variable lighting condition are found to be efficiently handled with this system. Noise
present in the segmented image due to dynamic background can be removed with the help of this adaptive technique. The proposed approach is found to be effective for a range of conditions.

References


Index Terms

Computer Science
Image Processing
Keywords

Hand Tracking And Segmentation  Hand Gesture Recognition  Colour Based Segmentation
Background Subtraction

Mixture Model