Abstract

This paper addresses problems of detection and tracking of moving multiple people in a video stream. Detecting and tracking are fundamental tasks for future research into Human Computer Interaction (HCI). Detecting and Tracking multiple people in video are considered time consuming processes due to the amount of data a video contains, illumination changes, complex backgrounds and occlusions that occur as soon as people change orientations over time. This study focus on developing a fully automated system aims to Detecting and tracking multiple people in video, by analyzes sequential video frames based on hybrid detection algorithm, and tracking based on human body structure. The performance of the proposed system is tested through a series of experiments and human computer interaction application based human detection, tracking and identification. Identification is based on new clustering
method mentioned in this paper.

References


Index Terms

Computer Science Image Processing

Keywords

Video Processing Human detection and tracking Viola-Jones upper body Skin detection

Computer vision systems
Biometrics