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Abstact

Nowadays cameras are popular tools to detect human movement to use as input for many application programs. Cameras are used to detect the moving parts of human bodies such as the movement of faces or hands. Cameras which are used in the application programs can be any cameras detached on tablets, computers or smartTV.

This project presents a new adaptive skin modeling approach based on face skin tone color. In our new approach, we apply Haar-like feature technique for face detection, then the face color is used to define the color range of skin color in the other part of the body. This program is able to detect face and hands from input and then enforce the predefined model to move corresponding to actual movement. The proposed method was able to show the validity and robust performance of the proposed algorithm and low - cost production.