

عنوان مقاله:

Implementation of two human skin segmentation models in color images on FPGA

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در مهندسی برق و علوم کامپیوتر (سال: 1394)

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خلاصه مقاله:

Skin segmentation is known as a preprocessing step in many applications of image processing such as face detection, hand gesture recognition, and human computer interaction. In this paper, hardware implementation of two models including, thresholding on YCbCr color space and thresholding on RGB color space, is presented. These models are chosen due to their efficiency and simplicity. It is clear that the time of processing in a real time system is a key point. The implementation of a software model on FPGA increases the speed of their execution. The hardware models are designed using VHDL. Pipeline technique is used in both of them due to increase of speed. The synthesis results of the hardware models are obtained by ISE 13.1 and the target device is a Xilinx Spartan 6 Lx9

کلمات کلیدی:

Skin Cluster, Thresholding, FPGA, ASM chart, Data Path, Pipelining

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