

A Survey on Skin Detection Based on Pixel Color Classification

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Abstract

The purpose of this paper is to determine which color space is best suited for skin detection from digital images. Further is tried to determine which combination of components from one color space returns the best results and also to determine the number of bins per pixel needed. To achieve this purpose three skin detection algorithms were designed, one based on color values range (CVR), one based on Bayes classifier and one based on Gaussian Mixture Models (GMM). Based on the experimental results it was concluded that similar results were obtained for YCbCr with Y and Cb, HSV with H and S components selected regardless of the classifier used.

Biography

Ovidiu Iles attends a Master's Program in Multimedia Technologies at Technical University of Cluj-Napoca, continuing the studies made at the Faculty of Electronics, Telecommunications and Information Technology.

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