Skin Detection using HSV color space

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Abstract — This work describes an implementation for skin detection which relies on the H channel to characterize the skin colors range. The openCv library is used for image processing. The program initially converts RGB images to HSV one. The H channel is used to characterize the colors range for skin detection. To illustrate the approach we compare this with others.

Keywords: skin-detection; HSV color space; openCv;

I. INTRODUCTION

Skin detection in images is a theme that is present in many applications. This is the first step for faces recognition, for example. Other application is for naked detection, in the internet. This work presents a system for automatic skin detection. This system was implemented and compare quantitatively with others.

II. ALGORITHM FOR SKIN DETECTION

The Figure 4 illustrates the algorithm steps. This was implemented using the language C and openCv library. First, the image in RGB was converted to HSV color space, because it is more related to human color perception [1]. The skin in channel H is characterized by values between 0 and 50, in the channel S from 0.23 to 0.68 for Asian and Caucasian ethnics [2]. In this work we used images from different Caucasian people, from different places of the world. Figure 1 illustrates one of the original image processed.

Figure 1: Original image.

After some tests we proposed to use only the channel H with values ranging between 6 and 38 and a mix of morphological and smooth filters.

Figure 2 show the same image of figure 1 convert from RGB to HSV, considering now each channel HSV represented on the R, G and B channels.
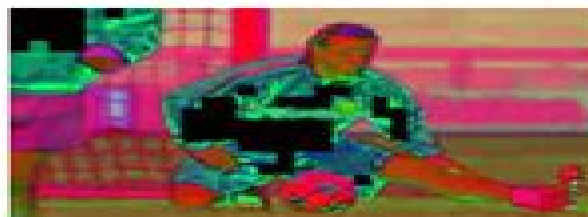

Figure 2: Image in HSV.

Figure 3 illustrates an intermediary image, where all pixels classified as skin (using the range in channel H already established) were set to value 255, and non-skin pixels was fixed to 0.

Figure 3: An intermediary image.

In the image of figure 3 there are has many noises, in the classification of pixels like skin and non-skin. Next step minimize these noises, using a 5x5 structuring element in morphological filters. First, we used the structuring element with a dilatation filter that expands the areas in the skin regions. After that the same structuring element was used to erode the image and reduce all the imperfections that the dilatation created. These techniques were used, by approximation, to fill all the spaces that were by H channel range supposed that is skin or non-skin.

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Face Detection and Recognition Asit Kumar Datta,Madhura Datta,Pradipta Kumar Banerjee,2015-10-28 Face detection and recognition are the nonintrusive biometrics of choice in many security applications Examples of their use include border control driver s license issuance law enforcement investigations and physical access control Face Detection and Recognition Theory and Practice elaborates on and explains the theory and practice of face de **Innovations in Bio-Inspired Computing and Applications** Ajith Abraham,Niketa Gandhi,Millie Pant,2019-05-21 This book highlights recent research on bio inspired computing and its various innovative applications in Information and Communication Technologies It presents 50 high quality papers from the 9th International Conference on Innovations in Bio Inspired Computing and Applications IBICA 2018 and 7th World Congress on Information and Communication Technologies WICT 2018 which was held at Toc H Institute of Science and Technology TIST on December 17 19 2018 IBICA WICT 2018 was a premier conference and brought together researchers engineers and practitioners whose work involved bio inspired computing computational intelligence and their applications in information security real world contexts etc Including contributions by authors from 22 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering *Inventive Systems and Control* V. Suma,Zubair Baig,Selvanayaki Kolandapalayam Shanmugam,Pascal Lorenz,2022-08-01 This book presents selected papers from the 6th International Conference on Inventive Systems and Control ICISC 2022 held on 6 7 January 2022 at JCT College of Engineering and Technology Coimbatore India The conference proceedings of ICISC 2022 includes an analysis of the class of intelligent systems and control techniques that utilizes various artificial intelligence technologies where there is no mathematical models and system available to make them remain controlled Inspired by various existing intelligent techniques the primary goal of ICISC 2022 proceedings is to present the emerging innovative models to tackle the challenges faced by the existing computing and communication technologies **Advances in Computer and Computational Sciences** Sanjiv K. Bhatia,Krishn K. Mishra,Shailesh Tiwari,Vivek Kumar Singh,2017-10-03 Exchange of information and innovative ideas are necessary to accelerate the development of technology With advent of technology intelligent and soft computing techniques came into existence with a wide scope of implementation in engineering sciences Keeping this ideology in preference this book includes the insights that reflect the Advances in Computer and Computational Sciences from upcoming researchers and leading academicians across the globe It contains high quality peer reviewed papers of International Conference on Computer Communication and Computational Sciences ICCCCS 2016 held during 12 13 August 2016 in Ajmer India These papers are arranged in the form of chapters The content of the book is divided into two volumes that cover variety of topics such as intelligent hardware and software design advanced communications power and energy optimization intelligent techniques used in internet of things intelligent image processing advanced software engineering

evolutionary and soft computing security and many more This book helps the perspective readers from computer industry and academia to derive the advances of next generation computer and communication technology and shape them into real life applications   Advances in Computing, Communication, Automation and Biomedical Technology M. G. Sumithra ,Arulmurugan Ramu ,Chow Chee Onn,2020-12-30 Advances in Computing Communication Automation and Biomedical Technology aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation   *International Conference on Mobile Computing and Sustainable Informatics* Jennifer S. Raj,2020-11-30 Sustainability and mobile computing embraces a wide range of Information and Communication Technologies ICT in recent times This book focuses more on the recent research and development works in almost all the facets of sustainable ubiquitous computing and communication paradigm The recent research efforts on this evolving paradigm help to advance the technologies for next generation where socio economic growth and sustainability poses significant challenges to the computing and communication infrastructures The main purpose of this book is to promote the technical advances and impacts of sustainability and mobile computing to the informatics research The key strands of this book include green computing predictive models mobility data analytics mobile computing optimization Quality of Service QoS new communicating and computing frameworks human computer interaction Artificial Intelligence AI communication networks risk management Ubiquitous computing robotics smart city and applications The book has also addressed myriad of sustainability challenges in various computing and information processing infrastructures   **Facial Makeup Detection Using HSV Color Space and Texture Analysis** Shiva Varshovi,2012   **Face detection and tracking using MATLAB** Onkar Sabran,2014-06-24 Master s Thesis from the year 2014 in the subject Engineering Computer Engineering grade 3 language English abstract Face Identification and following has been a vital and dynamic examination field on the grounds that it offers numerous requisitions particularly in feature observation biometrics or feature coding The objective of this undertaking was to actualize a constant framework on a FPGA board to catch and track a human s face The face location calculation included shade based skin division and picture separating The face area was dictated by figuring the centroid of the discovered locale A product variant of the calculation was autonomously executed and tried on still pictures in MATLAB Despite the fact that the move from MATLAB to verilog was not as smooth obviously trial results demonstrated the exactness and viability of the constant framework much under shifting states of lights facial postures and skin colors All estimation of the fittings usage was carried out continuously with negligible computational exertion consequently suitable for force

constrained provisions **Evaluation of Colorspace Transformation and Illumination Invariance in Skin Detection Using QROC Analysis** Sriram Jayaram,2002 Skin detection is an important preliminary process in human notion analysis and face detection techniques We assume that skin detection is a two step pixel level process of transforming color to a colorspace followed by classification of the transformed color into the class of skin or non skin A transformation to a non RGB colorspace is assumed to increase separability between skin and non skin classes to increase similarity among different skin tones and to achieve a robust performance under varying illumination conditions It is also assumed that the elimination of the illumination component improves the robustness to accommodate illumination variance In this paper we examine if the common practice of 1 transforming the pixel color to a non RGB colorspace and 2 dropping the illumination component of color during the classification step improves the skin detection performance on different skin tones and illumination conditions Using the quality receiver operating curve QROC analysis we compare the performance of nine colorspace transformations coupled with two approaches of Bayesian classifier histogram and normal density on a large data set of 805 images The results reveal that dropping the illumination component does not improve the performance YC subscript bC subscript r colorspace results in the best performance however the improvement due to colorspace transformation is not consistent Interestingly for all colorspaces the results of classification achieved with a histogram approach are better than using a normal density approach <ins>Topics for Examination-mycology</ins> ,1900 **Face Spoofing Detection from a Single Image Using Texture and Direction Analysis in HSV Color Space** ,2016 *Face Detection Using Rough Set Based Clustering Technique and Skin Tone Segmentation* Palash Dutta,2017 Face detection and facial feature extraction plays an important role in modern life Color face image is a useful piece of information in computer vision especially for skin detection In this paper an efficient algorithm for human face detection and facial feature extraction technique has been described It proposes a rough set based clustering method to identify the face region and a new algorithm that uses a novel skin color model RGB HSV YCbCr very effectively for the detection and facial feature extraction of human face region The experimental results have shown that the proposed algorithm is able to accomplish proper detection successfully and to mark the exact facial region in given image *Detection and Tracking of the Regions of Skin Using the Technique HS-ab* Diana Alejandra Contreras,2018 The content of this work is the proposal of the technical HS ab for the detection and tracking of the regions of skin in real time First two proposed techniques are analyzed for the modeling of skin colour in images using a combination of colour spaces HSV with YCbCr and HSV with CIELab In the process of definition of the intervals of pixels is taken into account the following non skin colour uses the components H and S whereas skin colour uses the components Cb Cr a and born The results showed that the HS ab technique is better than the HS CbCr technique because of the precision in detecting skin colour according to the percentages C 34 8% and CDR 67% After the morphologic operations are applied to debug the images of the previous segmentation and detect regions of skin using methods such as blob extraction and contour detection

Subsequently the tracking of skin colour consists of calculating the moments and positions of each frame to know the trajectory of the regions of skin The purpose of the work is to design an easy to use computer vision system that will facilitate the early rehabilitation of patients before they are clinically ready to be fitted with a prosthesis <u>Human Face Detection Using Skin Color Tone</u> Hewa Majeed Mohialdeen,2013 Human face recognition systems have gained a considerable attention during last decade due to its vast applications in the field of computer and advantages over previous biometric methods There are many applications with respect to security sensitivity and secrecy Human face detection is the most important and first step of recognition system This dissertation introduces a new approach to face detection systems using the skin color of a subject This system can detect a face regardless of the background of the picture which is an important phase for face identification The images used in this system are color images which give additional information about the image than the gray images provide In human face detection the Two respective classes are the face area and the non face area This new approach to face detection is based on color tone values specially defined for skin area detection within the image frame The proposed system first resizes the image and then separates it into its component R G and B bands These bands are transformed into another color space which is YCbCr space and then into YC bC r space the skin color tone The morphological process is implemented on the presented image to make it more accurate At last the projection face area is taken by this system to determine the face area Experimental results show that the proposed algorithm is good enough to localize a human face in an image with an accuracy of 92 69% **Composite Feature-based Face Detection Using Skin Color Modeling and SVM Classification** Swathi Rajashekar,2012 This report proposes a face detection algorithm based on skin color modeling and support vector machine SVM classification Said classification is based on various face features used to detect specific faces in an input color image A YCbCr color space is used to filter the skin color pixels from the input color image Template matching is used on the result with various window sizes of the template created from an ORL face database The candidates obtained above are then classified by SVM classifiers using the histogram of oriented gradients eigen features edge ratio and edge statistics features

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