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Research Paper

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Improved the Existing Method for Sketch Based Image Retrieval System

Jyoti Jain

MCTA Branch

Gyan Ganga Institute of Technology & Science

Jabalpur - India

Abstract: Content based image retrieval is a process of searching image with the help of its content like color, shape, sketch etc. Here we describe how can retrieve the image from the sketch content and its drawback.

Describe the individual sketch method and try to integrate this method for reducing the individual methods drawback.

Keywords: EHD, HOG, Proposed System, Result of Proposed System.

I. Introduction

The content based image retrieval (CBIR) is one of the most popular, rising research areas of the digital image processing. Most of the available image search tools, such as Goggle Images and Yahoo! Image search, are based on textual annotations of images.

In these tools, images are manually annotated with keywords and then retrieved using text- based searching methods. The performances of these systems are not satisfactory. The goal of CBIR is to extract visual content of an image automatically, like color, texture, or shape. This paper aims to introduce the problems and challenges concerned with the design and the creation of CBIR systems, which is based on a free hand sketch (Sketch based image retrieval – SBIR). With the help of the existing methods, describe a possible solution how to design and implement a task specific descriptor, which can handle the informational gap between a sketch and a colored image, making an opportunity for the efficient search hereby.

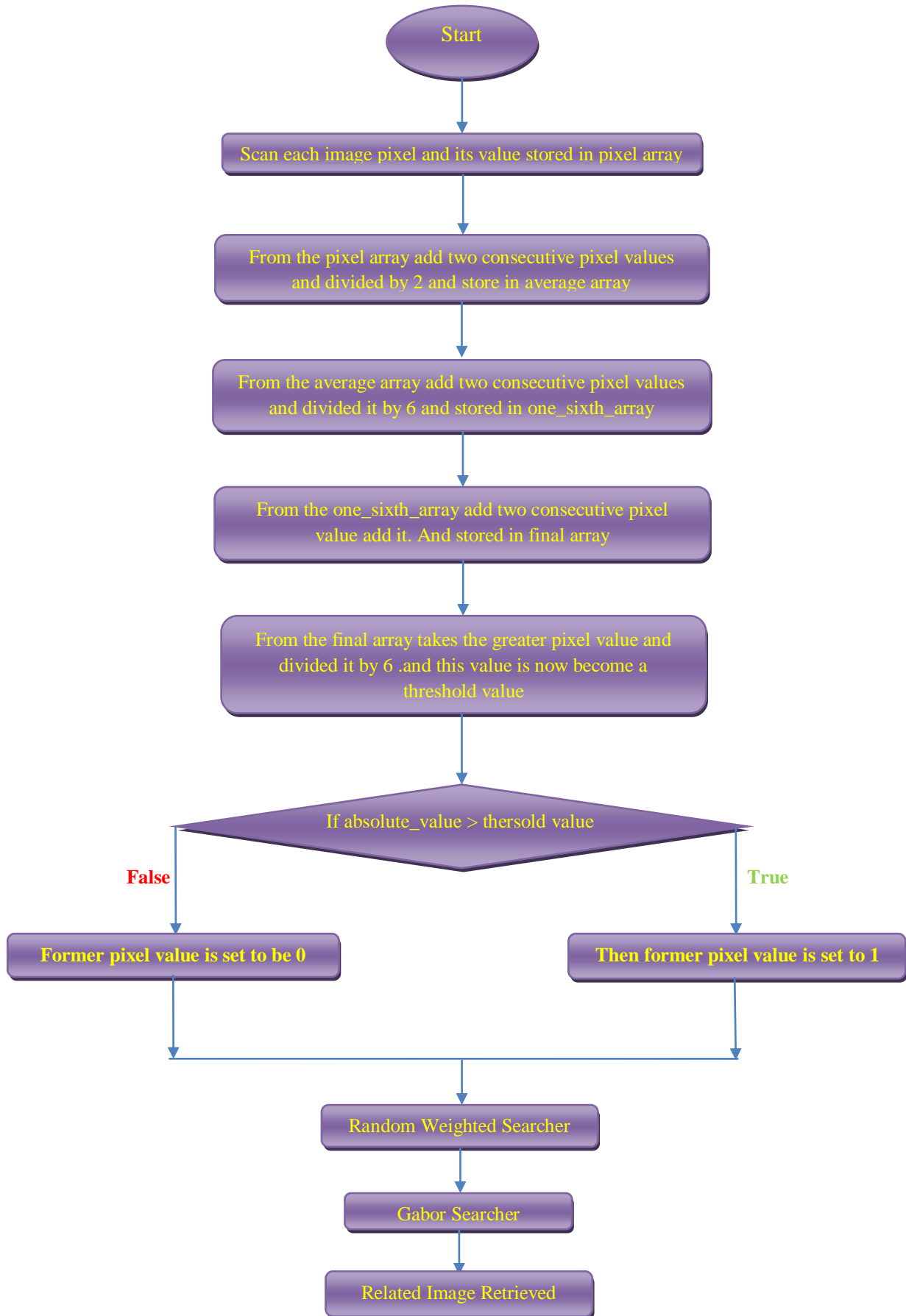
The used descriptor is constructed after such special sequence of pre-processing steps that the transformed full color image and the sketch can be compared. We have studied EHD and HOG.

Experimental results on two sample databases how good results. Overall, the results show that the sketch based system allows users an intuitive access to search-tools.

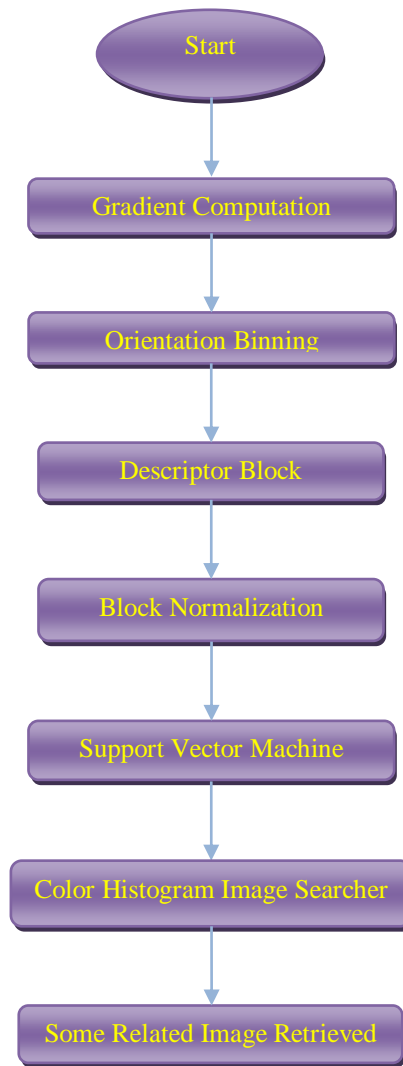
II. Some Sketch Methods

In the Existing Method we can perform some changes to improving its efficiency Modified EHD:

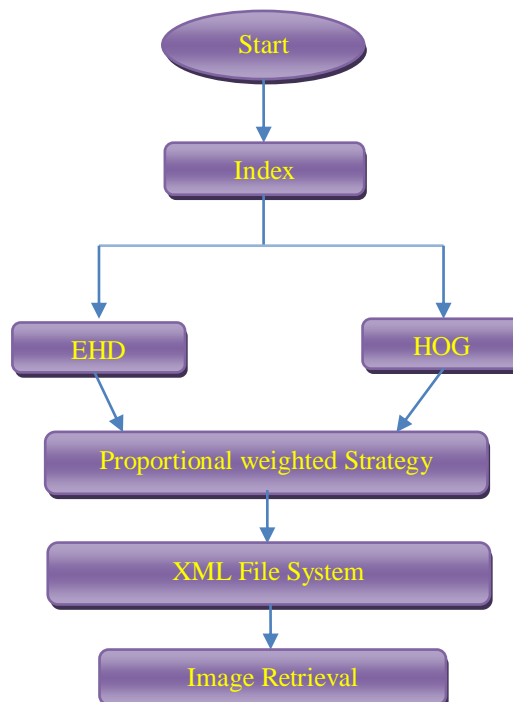
EHD: is the Edge Histogram Descriptor method. Here we describe the block diagram of EHD.



HOG: The block diagram of hog method can be represented its functionality. There is perform some changes in the existing method and get the improved result



Proposed System: In the proposed system we try to integrate the EHD and HOG method for enhancing the efficiency of individual methods. There is trying to overcome the EHD and HOG methods drawback.



Expected Result of Proposed System

Content Method	Color	Black and white	Combined Database
No of Images	100	100	200
EHD	34.89%	44.98%	47.76%
HOG	58.65%	48.87%	62.67%
PROPOSED METHOD	59.06%	59.12%	66.49%

III. Conclusion

In the proposed system to implement the new searching technique and improving the quality of searching image, in this technique EHD and HOG method work parallel and normalized result is displayed.

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