Image Retrieval by Recognizing Text.

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ABSTRACT

Today's world is digital images world and we made it smart world by using smart phones and new web based technology. Many application widely used which are based in images. we need to find equivalent images from such a large image database or collection. We can retrieve images through image content and its other features. Even we can use text for searching too. So we provide the application which retrieve those images in which the input text is present.

Keyword: - Object reorganization, OCR, Text Comparison, Post processing.

1. INTRODUCTION

Now-a-days, there is growing demand for the software systems to recognize text in computer system when information is scanned through paper documents as we know that we have number of newspapers and books which are in printed format related to different subjects. That printed form may be collection of images so to access these images is very essential task by considering the features of that image. Text recognition on image will provide the easy way to retrieve collection of stored images. In this paper we provide the text as input to compare with text that present on images. We used the OCR technique to recognise the text from images. After recognising text we compare the input text and recognised text. If input text and recognised text from image is matched then image is retrieve.

2. LITERATURE SURVEY

In this we studied that the standard deviation of histogram of high frequency wavelet coefficient was used. For classification purpose they have used K-means algorithm. This gives the result as two different regions 1. Text regions 2. Background regions [1]. Try to remove noise from images and how to recognize text in image.3 techniques are used 1. Segmentation 2. Feature extraction 3. Classification [2].OCR technique is used for retrieve the text from images. We used the OCR library function to recognize text[3].

2.1. Existing System

In existing system user retrieve the images by using primitive feature such as colour, texture or shape.

2.2 .Proposed System

So we try to develop application in which we retrieve image through text that text should present on that image.

3. SYSTEM ARCHITECTURE

In this system we have database in this database there are many images present. Text is present on each and every image. User gives input text to the system to retrieve the image. We used OCR to recognise the text from images after recognising the text we compare the user input text and recognised text if it matched then retrieve the image on which that text is present.



In this application we retrieve the images from images database by using text but input text must be present on image. In our smart phones or computers numbers of images are present. On that images different text are present so by using our application we retrieve that images thought text that present on that images. We firstly run OCR on images; by using OCR we recognize the text from image after recognizing text. User gives input text to the system after getting that input text. It should be compare with recognized text. if input text and OCR recognized text is matched then image is retrieve from image database.

5. RESULTS

Table 1:Detection result

Parameter values	W=16, =8	W=32, H=8
Recall	87 %	80 %

Precision	76 %	82 %

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Fig1: OCR result

In this application result of OCR is 70-80% is accurate. By using comparison of both we retrieve the image easily.

6. CONCLUSION

In this paper we conclude that we recognise the text from image by using OCR and we retrieve the image by using comparison of input text and recognized text.

7. REFERENCES

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[3]"Image retrieval using the combination of text-based and content-based Algorithms", By H. Mohamadi 1 , A. Shahbahrami 2* and J. Akbari 1