Abstract

This paper presents the idea of using sal cal density distribution in complex Walsh transform sectors to generate the feature vector for content based image retrieval. This paper compares the performance of 8, 12, and 16 sectors of Walsh Transform. The density distribution of real (sal) and imaginary (cal) values of Walsh sectors in all three color planes are considered to design the feature vector. The algorithm proposed here is worked over database of 270 images spread over 11 different classes. The Euclidean distance is used as similarity measure. Overall Average precision and recall is calculated for the performance evaluation and comparison of 8, 12 & 16 Walsh sectors. The overall average of cross over points of precision and recall is of all methods are compared.

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**Index Terms**

Computer Science  
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**Key words**

CBIR  
Walsh Transform

Euclidian Distance

Precision

Recall