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# COMPARISON BETWEEN FEATURES EXTRACTED SCHEMA FOR MRI BREAST CANCER

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**Abstract:**
*In MRI image to breast cancer treatment earlier detection of disease which give the better solution to the problem for that process the proposed system deals with the feature extraction process from the given input image, Initially extract the edge as a feature next color as a feature and finally extract the texture as a feature  and process the extract the schema from the image and compare among those feature extracted schema with proposed method like canny for edge detection algorithm, color for BWP algorithm and Texture for histogram algorithm and finally for comparison euclidean distance is used  for the better result. To make the comparison among the result two important think should be taken is FAR and FRR for earlier detection of disease to solve the problem for the present day and take the better solution of the result for the system.*
**Keywords:** *Edge, Color, Texture, MRI Image, Breast Cancer*

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**QR code**

## INTRODUCTION:

In day to day life only one enemy for women in modern world is breast cancer to give important to those things several researchers are doing there work in breast cancer as well as tumor especially for women to give support to that scenario the proposed system deals with the earlier detection is only one way to solve all the problem. The breast cancer detection all the existing system are using MRI image for the process and execution therefore in the proposed system also dealing with MRI image through the MRI image earlier detection technique should be made for the system [2,34].
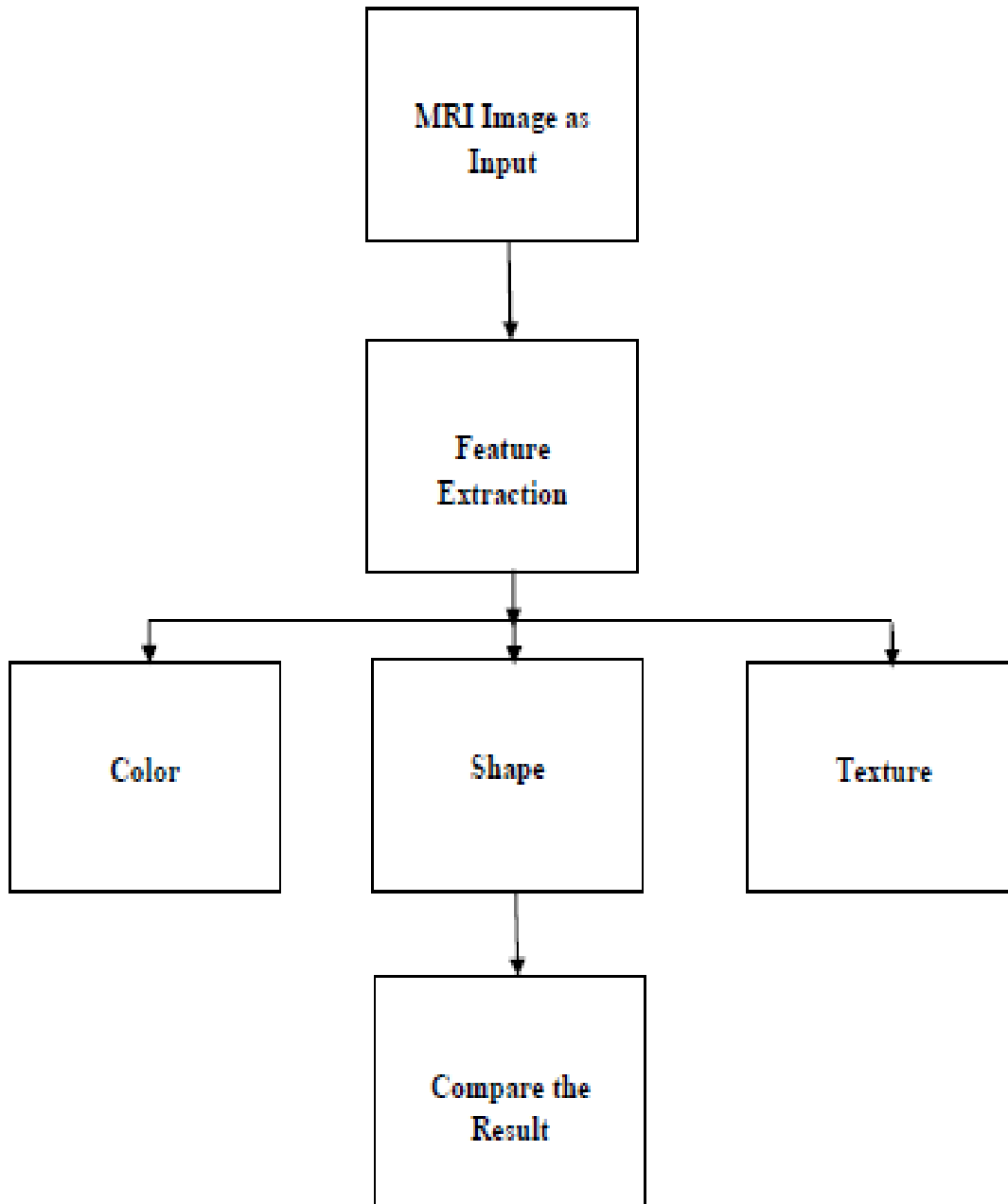


Fig 1: Block Diagram for the proposed System

**METHODS AND RESULTS:**

In the introduction we have discussed regarding the proposed system policy as well as work flow processing. The proposed system use MRI image as a database and the system process we have use MIAS database for the entire process. In this sector methods used for the implementation process follow below.

Step1: MIAS database has been used for the entire process.[1,7,6]

Step2: After identification of the database pre-process the MRI image and then feature extraction has to be made.

Step3: To extract the feature from the MRI input image for color BWP algorithm has been used.

Step4: To extract the feature from the MRI input image for Edge Canny algorithm has been used.

Step5: To extract the feature from the MRI input image for Texture Histogram has been used.

Step6: To make the comparison between the image and data the system has euclidean distance algorithm.

Step7: To show the best feature extraction the system has FAR and FRR is the main theme for the justification of the result
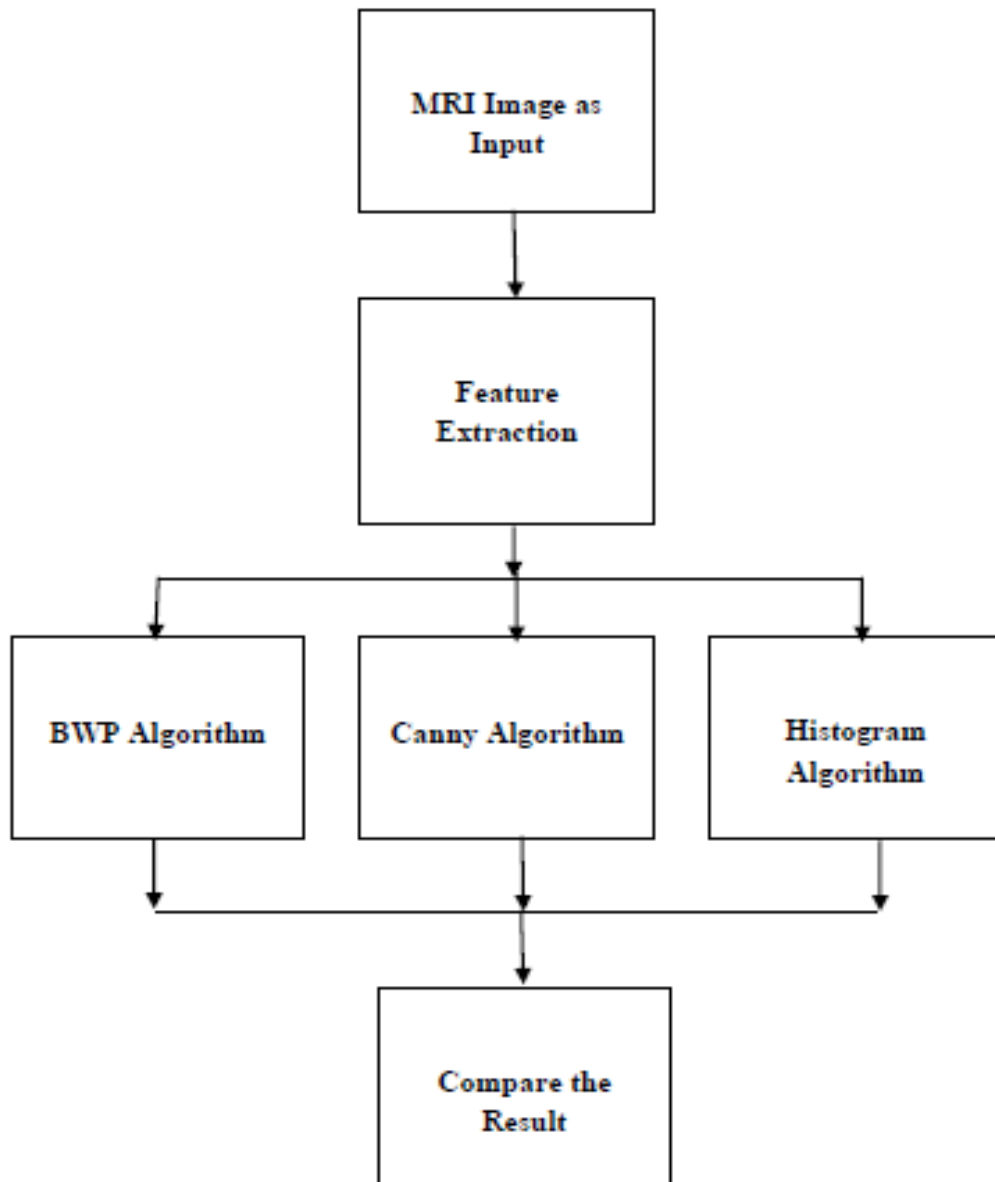
**Fig 2: Block Diagram for Extraction of color**

In Implementation part totally 133 left side image and 134 right side image has been for the process of feature extraction like color, edge and texture detection has been made and result for the implementation shows in the figure3 and figure4 [5].
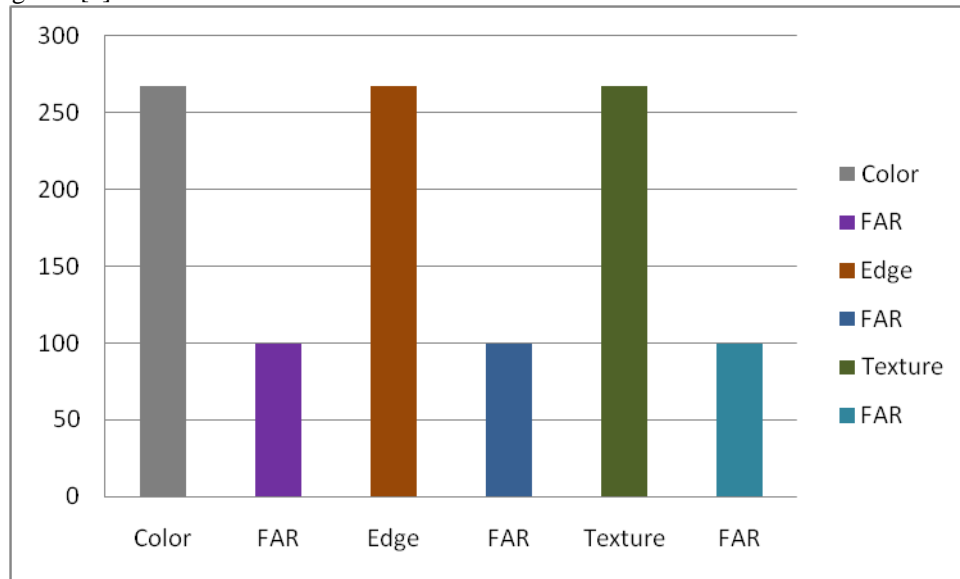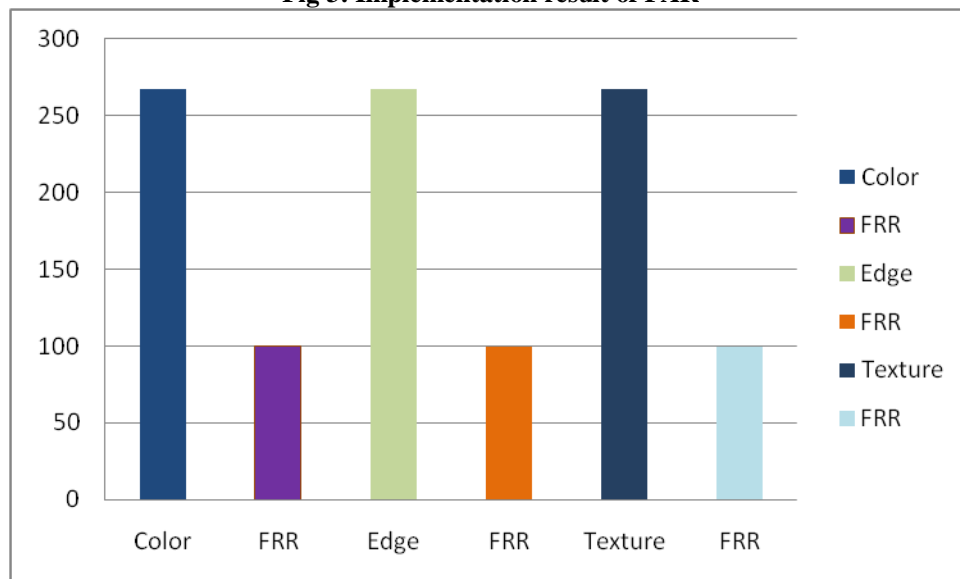


**Fig 3: Implementation result of FAR**



**Fig 4: Implementation result of FRR**

<span style="color:green">**CONCLUSION:**</span>

The System shows the comparative study of the feature extracted like color, texture and edge from that edge detection have a effective result shown from the figure3 & Figure4 it will helpful for the earlier detection of MRI breast cancer detection can be made the implementation result can be justify the result and from the result edge can be used for the future process for the various approach in the MRI image.

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