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SHORT COMMUNICATION **OPEN ACCESS**

Approaches involved in detection of cancer in blood using various transformations

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ABSTRACT
Now a day even youngsters are currently several issue with blood cancer due to food habits and work pressure, timing etc., To make contribution to this dangerous diseases this work focus on the earlier detection of cancer using feature extraction like edge, color and properties of the blood and by applying CNN for the classification process with Euclidean metrics for the accuracy calculation Tp, Tn, Fp, Fn will be included for the same. Analysis part take a unique process in this system for the exact result plays a vital role in the project.
Keywords: *Edge Detection, Blood, CNN Transform,Color.*

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INTRODUCTION

Due to timing of work, pressure, Bad food habits now a day lot of blood cancer and several diseases are creating to focus on the blood cancer this system will be deal with following work flow..

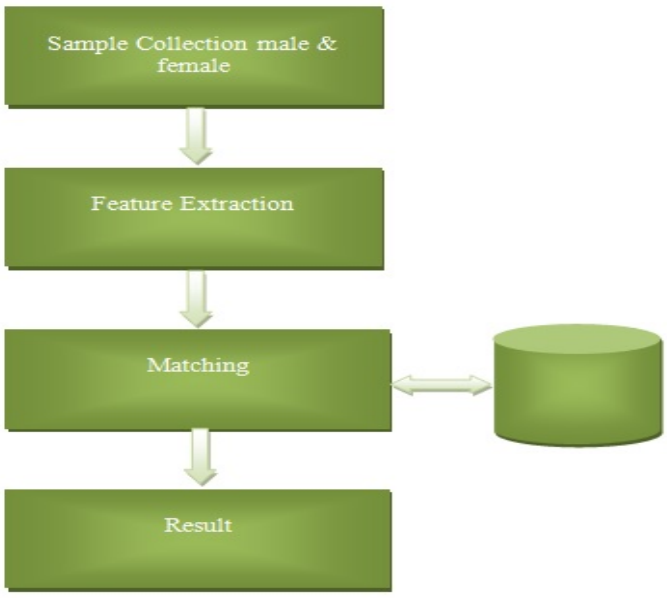

Figure 1. Overview of the system process

MATERIAL AND METHODS

This system focus on the sample data collection for all the blood groups with age wise for the better result and after collection of blood group make the database for the feature extraction process and properties of blood group, color and edge detection for the earlier detection feature extraction will be taken and by using CNN classification technique for the better result.

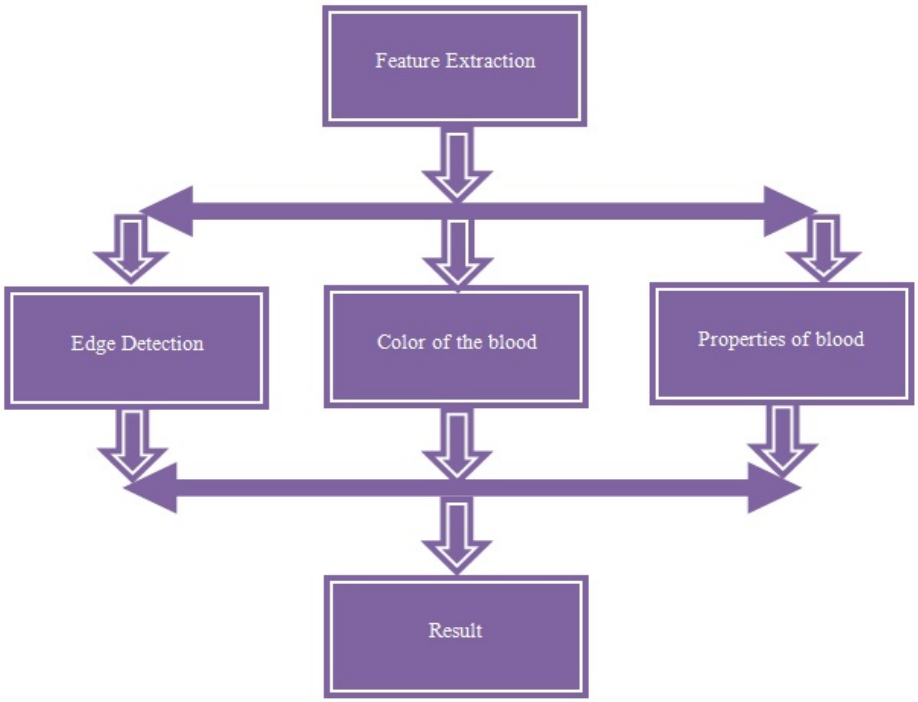

Figure 2. Feature Extraction for the entire system

The Figure 2 indicates work flow of the proposed system collection blood sample is the tedious work involve in the progress and after collection the same use the feature extraction for the purpose of earlier dection of blood cancer.

IMPLEMENTATION

The Execution part deals with the different types of blood group and tell the experiment result for the better and efficient result CNN is used for the same and for the result justification indicates the Tp, Tn, Fp, Fn in Table 1, Table 2, Table 3 & Table 4.

Table-1: Result Performance of CNN Transform (O+ve & O-ve)

S.No	Parameter	Result (%)
1	Tp	98.79
2	Tn	98.79
3	Fp	97.59
4	Tn	98.79

Table-2: Result Performance of CNN-Transform (A+ve & A=ve)

S.No	Parameter	Result (%)
1	Tp	97.59
2	Tn	98.79
3	Fp	97.59
4	Tn	98.79

Table-3: Result Performance of CNN Transform (B+ve & B-ve)

S.No	Parameter	Result (%)
1	Tp	98.79
2	Tn	98.79
3	Fp	97.59
4	Tn	98.89

Table-4: Result Performance of CNN Transform (AB+ve & AB-ve)

S.No	Parameter	Result (%)
1	Tp	98.79
2	Tn	98.79
3	Fp	98.79
4	Tn	97.59

CONCLUSION

The system having very effective process which involve in the collection of blood samples and make the feature extraction for the Entire work. The system deals with the earlier detection of the blood cancer result justifying from the implementation analysis of different blood group with Tp, Tn, Fp, Fn by using the CNN algorithm for the same. Choosing the CNN effective result achieved for all the type of blood along with the result.

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