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## Acute myeloid leukemia detection in WBC cell based on ICA feature extraction

**Jasvir Kaur**

IK Gujral Punjab Technical University, India

Leukemia can be detected with an automated approach well in advance. In this paper, automated approach of leukemia detection is proposed. Leukemia is a cancer of white blood cells that affects the blood cells in the body. Acute myeloid leukemia is a cancer of the myeloid line of blood cells characterized by the rapid growth of abnormal white blood cells that build up in the bone marrow. Acute myeloid leukemia is the most common acute leukemia affecting adults and its incidence increases with age. The symptoms of AML are caused by replacement of normal bone marrow with leukemia cells. A physical technique of leukemia detection, specialist checks mini images. Leukemia detection produces in the bone marrow. They don't the effort of usual white blood cells. They grow faster than normal cells, and they don't break increasing while they should. Above time, leukemia cells can mass out the normal blood cells. The microscopic images of the blood cells are experimenting to find out many diseases Attentive only on WBC, Leukemia Detection system analyses the microscopic image and overcome these problems. It removes the necessary parts of images and direct applies some techniques. K-mean collecting is used only WBC (White Blood Cell) detection. In the literature study that quite a good number of schemes on automated differential blood count have been proposed till date. From the literature on leucocyte image segmentation it is observed that most of the schemes thrust upon nucleus extraction and very few schemes can extract the cytoplasm that too with lesser accuracy. In the purposed work, we implement the k-means clustering to identify the cell classification and ICA algorithm used for feature extraction algorithm and classifies the cancer detection and calculate the performance parameters like false acceptance rate, false rejection rate and accuracy. The simulation tool used in this research work 2013 and compare the proposed performance parameters with existing parameters.

### Biography

Jasvir kaur daughter of parmjit lal. I am 26 years old. my date of birth (04-04-1992). she is basically from punjab india. recently she have completed my masters in computer science and engineering. In masters she have completes thesis in acute myeloid leukemia detection in wbc cell based. this is my research topic.

j.kaurjass92@gmail.com

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