International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

REVIEW ARTICLE

REVIEW: DETECTION OF TYPES OF ACUTE LEUKEMIA

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Abstract:-

The proposed system uses features of microscopic images by examining changes like texture, geometry, color and statistical analysis of images. These changes will be used as a classifier input. The presented method shows how effective an automatic morphological method to identify the Acute Lymphocytic Leukemia (ALL) by microscope images of blood samples. At first the system individuates the leucocytes present in others blood cells, after that it recognizes the lymphocyte cells (cells that causes acute leukemia), evaluation regarding morphological indexes from those cells is done and finally classification for the presence of the leukemia is done. This also includes 2D PCA for the feature extraction along with separation of nucleus and cytoplasm and other cellular features.

Keywords:-

Acute Lymphoblastic Leukemia(ALL); Acute Myloid Leukemia(AML); Local Pixel Grouping(LPG); Principal Component Analysis(PCA); Otsu's Thresholding; Lymphoblast, Leucocytes

Full Text: http://www.ijcsmc.com/docs/papers/March2014/V3I3201423.pdf