Abstract

Counting of red blood cells (rbc) in blood cell images is very important to detect as well as to follow the process of treatment of many diseases like anaemia, leukaemia etc. However, locating, identifying and counting of red blood cells manually are tedious and time-consuming that could be simplified by means of automatic analysis, in which segmentation is a crucial step. In this paper, we present an approach to automatic segmentation and counting of red blood cells in microscopic blood cell images using Hough Transform. Detection and counting of rbc have been done on five microscopic images and finally discussion has been made by comparing the results achieved by the proposed method and the conventional manual counting method.

References


- J. Gall and V. Lempitsky: Class Specific Hough forests for object detection, CVPR, (2009).

Index Terms

Computer Science

Image Processing

Keywords

Image Segmentation  Detection  Red Blood Cell  Counting  Hough Transform