

Image enhancement for red blood cell segmentation

Abstract

A number of issues in blood cell image feature such as illuminations, weak edge boundaries and color similarities especially between white blood cell (WBC) cytoplasm and red blood cell (RBC) which affect the accuracy of the segmentation of red blood cell image. This research aims to overcome the issue by applying image enhancement technique. Average filter, image contrast and median filter being proposed in this research. Each of the techniques help to eliminate fairly spread noises, display clear images and diminish single pixel noises. As the result, the quality image is increased and ready for the segmentation process.