Abstract

Blood smear analysis is an important diagnostic test which is performed to diagnose an array of diseases. The count of various blood cells and their morphological properties are the main focus of this test. Manual analysis of blood smears is time consuming and laborious. By automating this process and ultimately narrowing the scope of possible diseases, a considerable amount of time can be saved. This may in turn help medical staff as well as the patients. In this paper an automated technique for blood smear analysis using image processing is proposed to discern the blood cell count and blood cell properties. The results of image processing are then employed to generate a neuro-fuzzy system capable of predicting possible diseases.

References


Index Terms

Computer Science  Biomedical

Keywords

Blood Smear, Image Processing, Neuro-Fuzzy System