



A Novel Method of Automated Malaria Parasite Detection Using Android Mobile Phone

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Abstract

In this paper, propose a novel method to identify and detecting the presence of malaria parasites in the human blood smear images which caused by Plasmodium parasite. This paper also provide the information about the identify object from the blood sample image which is Red blood cell with their location in blood sample image also identifies the parasites in the infected RBC. The developed application is based on novel Annular Ring Ratio Method which is already implemented, tested and validated in MATLAB. The developed application also recognizes the different life stages of the parasites. The method use basic knowledge on cell structure on the components due to the samples and detects the RBC in the image.

Keyword: Malaria, RBC, WBC, Annular Ring Ratio Method, Morphological operation, Android Platform.

Full text: <https://sites.google.com/a/ijrit.com/papers/may5/V6I514.pdf>