Abstract

Malaria is one of the serious infectious disease which is because of mosquito bites. Diagnosis
of malaria is done by microscopic examination of blood. But this diagnosis method is time consuming and requires pathologists. This paper aims to introducing fast and accurate method based on image processing for malaria parasite identification. The database was generated by taking the microscopic images of blood of 30 malarial patients. Based on morphological operations total number of cells are counted. Infected cells are analyzed based on intensity profiles within the cells. The result is validated by comparing with manual analysis. This approach can be used in rural areas where less experts are available and the delayed diagnosis may lead to complications in patients health.

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Index Terms

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