



















- [14] A. Moody, "Rapid Diagnostic Tests for Malaria Parasites," *Clinical Microbiology Reviews*, vol. 15, no. 1, pp. 66–78, Jan. 2002, doi:10.1128/cmr.15.1.66-78.2002.
- [15] M. Poostchi, K. Silamut, R. J. Maude, S. Jaeger, and G. Thoma, "Image analysis and machine learning for detecting malaria," *Translational Research*, vol. 194, pp. 36–55, Apr. 2018, doi:10.1016/j.trsl.2017.12.004.
- [16] B. R. Mirdha, J. C. Samantaray, and B. Mishra, "Laboratory diagnosis of malaria.," *Journal of Clinical Pathology*, vol. 50, no. 4, pp. 356–356, Apr. 1997, doi: 10.1136/jcp.50.4.356-a.
- [17] A. Ajala, Funmilola. A, F. Fenwa, Olusayo. D, A. Aku, and Micheal. A., "Comparative Analysis of different types of Malaria Diseases using First Order Features," *International Journal of Applied Information Systems*, vol. 8, no. 3, pp. 20–26, Feb. 2015, doi:10.5120/ijais15-451297.
- [18] H. Tulsani and S. Saxena, "Segmentation using Morphological Watershed Transformation for Counting Blood Cells," *Int. J. Comput. Appl. Inf. Technol.*, vol. 2, p. 28.
- [19] D. Yang et al., "A portable image-based cytometer for rapid malaria detection and quantification," *PLOS ONE*, vol. 12, no. 6, p. e0179161, Jun. 2017, doi: 10.1371/journal.pone.0179161.
- [20] D. K. Das, M. Ghosh, M. Pal, A. K. Maiti, and C. Chakraborty, "Machine learning approach for automated screening of malaria parasite using light microscopic images," *Micron*, vol. 45, pp. 97–106, Feb. 2013, doi: 10.1016/j.micron.2012.11.002.
- [21] D. K. Das, C. Chakraborty, B. Mitra, A. K. Maiti, and A. K. Ray, "Quantitative microscopy approach for shape - based erythrocytes characterization in anaemia," *Journal of Microscopy*, vol. 249, no. 2, pp. 136 – 149, Dec. 2012, doi: 10.1111/jmi.12002.
- [22] C. Ma, P. Harrison, L. Wang, and R. L. Coppel, "Automated estimation of parasitaemia of *Plasmodium yoelii*-infected mice by digital image analysis of Giemsa-stained thin blood smears," *Malaria Journal*, vol. 9, no. 1, Dec. 2010, doi: 10.1186/1475-2875-9-348.
- [23] A. Skandarajah, C. D. Reber, N. A. Switz, and D. A. Fletcher, "Quantitative Imaging with a Mobile Phone Microscope," *PLoS ONE*, vol. 9, no. 5, p. e96906, May 2014, doi:10.1371/journal.pone.0096906.
- [24] S. Kaewkamnerd, C. Uthaiipibull, A. Intarapanich, M. Pannarut, S. Chaotheing, and S. Tongshima, "An automatic device for detection and classification of malaria parasite species in thick blood film," *BMC Bioinformatics*, vol. 13, no. S17, Dec. 2012, doi:10.1186/1471-2105-13-s17-s18.
- [25] M. Imroze Khan, B. Acharya, B. Kumar Singh, and J. Soni, "Content Based Image Retrieval Approaches for Detection of Malarial Parasite in Blood Images," *Int. J. Biometrics Bioinforma.*, vol. 5, no. 2, pp. 97–110, 2011.
- [26] R. B. Hegde, K. Prasad, H. Hebbar, and B. M. K. Singh, "Development of a robust algorithm for detection of nuclei of white blood cells in peripheral blood smear images," *Multimedia Tools and Applications*, vol. 78, no. 13, pp. 17879–17898, Jan. 2019, doi:10.1007/s11042-018-7107-x.
- [27] I. Md. D. Maysanjaya, H. A. Nugroho, N. A. Setiawan, and E. E. H. Murhandarwati, "Segmentation of *Plasmodium vivax* phase on digital microscopic images of thin blood films using colour channel combination and Otsu method," *AIP Conference Proceedings*, 2016, doi: 10.1063/1.4958595.
- [28] D. M. Memeu, K. A. Kaduki, A. C. K. Mjomba, N. S. Muriuki, and L. Gitonga, "Detection of plasmodium parasites from images of thin blood smears," *Open Journal of Clinical Diagnostics*, vol. 03, no. 04, pp. 183–194, 2013, doi: 10.4236/ojcd.2013.34034.
- [29] H. A. Nugroho, W. A. Saputra, A. E. Permanasari, and E. E. H. Murhandarwati, "Automated determination of *Plasmodium* region of interest on thin blood smear images," *2017 International Seminar on Intelligent Technology and Its Applications (ISITIA)*, Aug. 2017, doi:10.1109/isitia.2017.8124108.
- [30] S. Rajaraman et al., "Pre-trained convolutional neural networks as feature extractors toward improved malaria parasite detection in thin blood smear images," *PeerJ*, vol. 6, p. e4568, Apr. 2018, doi:10.7717/peerj.4568.
- [31] H. A. Nugroho, R. Nurfauzi, E. E. H. Murhandarwati, and P. Purwono, "PlasmoID: A dataset for Indonesian malaria parasite detection and segmentation in thin blood smear." 2022.
- [32] N. E. Ross, C. J. Pritchard, D. M. Rubin, and A. G. Dusé, "Automated image processing method for the diagnosis and classification of malaria on thin blood smears," *Medical & Biological Engineering & Computing*, vol. 44, no. 5, pp. 427–436, Apr. 2006, doi: 10.1007/s11517-006-0044-2.
- [33] B. Sankur, "Survey over image thresholding techniques and quantitative performance evaluation," *Journal of Electronic Imaging*, vol. 13, no. 1, p. 146, Jan. 2004, doi: 10.1117/1.1631315.
- [34] B. Durakovic, "Design of experiments application, concepts, examples: State of the art," *Periodicals of Engineering and Natural Sciences (PEN)*, vol. 5, no. 3, Dec. 2017, doi: 10.21533/pen.v5i3.145.