

## DAFTAR PUSTAKA

- Atina, A. (2019) 'Aplikasi Matlab pada Teknologi Pencitraan Medis', *Jurnal Penelitian Fisika dan Terapannya (JUPITER)*, 1(1), p. 28. Available at: <https://doi.org/10.31851/jupiter.v1i1.3123>.
- Bawono, A., Adi, K. and Gernowo, R. (2014) 'Identifikasi Fokus Mikroskop Digital Menggunakan Metode Otsu', *Berkala Fisika*, 17(4), pp. 139–144.
- Cheng, W. *et al.* (2024) 'Application of image recognition technology in pathological diagnosis of blood smears', *Clinical and Experimental Medicine*, 24(1), pp. 1–19. Available at: <https://doi.org/10.1007/s10238-024-01379-z>.
- Deshmukh, S.S. *et al.* (2022) 'Automated Recognition of Plasmodium falciparum Parasites from Portable Blood Levitation Imaging', *Advanced Science*, 9(28), pp. 1–14. Available at: <https://doi.org/10.1002/advs.202105396>.
- Devi, S.S. (2021) 'Malaria Detection Using Machine Learning With K Nearest Neighbour Algorithm', 6(3), pp. 457–460.
- Ewnetu, Y. *et al.* (2024) 'A digital microscope for the diagnosis of Plasmodium falciparum and Plasmodium vivax, including P. falciparum with hrp2/hrp3 deletion', *PLOS Global Public Health*, 4(5), pp. 1–13. Available at: <https://doi.org/10.1371/journal.pgph.0003091>.
- Fikadu, M. and Ashenafi, E. (2023) 'Malaria: An Overview', *Infection and Drug Resistance*, 16, pp. 3339–3347. Available at: <https://doi.org/10.2147/IDR.S405668>.
- Hafidh, K. and Asrin, F. (2023) 'Pemodelan Sistem Untuk Identifikasi Stadium Plasmodium Falciparum Pada Citra Mikroskopis Malaria Dengan Teknik Object Counting', 7(2), pp. 153–157. Available at: <http://ojsamik.amikmitragama.ac.id>.
- Hidayat, C.A. *et al.* (2023) 'Mikroskop Digital, Otomatis, dan Portabel berbasis Raspberry Pi dengan Catu Daya DC', *Medika Teknika : Jurnal Teknik Elektromedik Indonesia*, 5(1), pp. 20–29. Available at:

<https://doi.org/10.18196/mt.v5i1.18009>.

Hidayat, C.A. *et al.* (2024) 'Pemeriksaan Citra Mikroskop Menggunakan Graphical User Interface dengan Python pada Raspberry Pi', *Medika Teknika : Jurnal Teknik Elektromedik Indonesia*, 5(2), pp. 79–90. Available at: <https://doi.org/10.18196/mt.v5i2.18226>.

Jahan, R. and Alam, S. (2023) 'Improving Classification Accuracy Using Hybrid Machine Learning Algorithms on Malaria Dataset †', *Engineering Proceedings*, 56(1). Available at: <https://doi.org/10.3390/ASEC2023-15924>.

John F. Fisher, M.M.F. (2024) *How to identify the type of malaria on a blood smear Medmastery*. Available at: <https://www.medmastery.com/guides/malaria-clinical-guide/how-identify-type-malaria-blood-smear>.

Kemenkes.RI (2022) *Pengendalian Faktor Risiko Malaria, Petunjuk teknis Faktor risiko Malaria*. Available at: [https://malaria.kemkes.go.id/sites/default/files/2023-11/Petunjuk Teknis Pengendalian Faktor Risiko Malaria 2022\\_0.pdf](https://malaria.kemkes.go.id/sites/default/files/2023-11/Petunjuk_Teknis_Pengendalian_Faktor_Risiko_Malaria_2022_0.pdf).

Li, Q. *et al.* (2025) 'Malaria: past, present, and future', *Signal Transduction and Targeted Therapy*, 10(1). Available at: <https://doi.org/10.1038/s41392-025-02246-3>.

Maduri, P.K. *et al.* (2021) 'Malaria Detection Using Image Processing and Machine Learning', *Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021*, 9(3), pp. 1789–1792. Available at: <https://doi.org/10.1109/ICAC3N53548.2021.9725557>.

Maturana, C.R. *et al.* (2022) 'Advances and challenges in automated malaria diagnosis using digital microscopy imaging with artificial intelligence tools: A review', *Frontiers in Microbiology*, 13(November), pp. 1–17. Available at: <https://doi.org/10.3389/fmicb.2022.1006659>.

Mehta, A. *et al.* (2021) 'Machine Learning-Based Fault Diagnosis of Self-Aligning Bearings for Rotating Machinery Using Infrared Thermography', *Mathematical Problems in Engineering*, 2021. Available at: <https://doi.org/10.1155/2021/9947300>.

Melanika, L.R.I., Fitriyah, H. and Setyawan, G.E. (2018) 'Sistem Deteksi Dan

- Perhitungan Otomatis Bakteri Salmonella dengan Pengolahan Citra Menggunakan Metode Object Counting’, *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, 2(12), pp. 6401–6408.
- Le Minh, G. *et al.* (2019) ‘Malaria: The Past and the Present’, *Clinical Science*, 132. Available at: <https://doi.org/10.1042/cs20171510>.
- Mukti, A.A.S. *et al.* (2024) ‘Deteksi Parasit Malaria Menggunakan Metode Gray Level Co-Occurance Matrix (GLCM)’, *Seminar Nasional Teknologi & Sains*, 3(1), pp. 91–96. Available at: <https://doi.org/10.29407/stains.v3i1.4356>.
- Muqoddam, M., Kartika, W. and Wibowo, S.A. (2020) ‘Modul Digitalisasi Mikroskop’, *Medika Teknika : Jurnal Teknik Elektromedik Indonesia*, 2(1). Available at: <https://doi.org/10.18196/mt.020113>.
- Neighbors, S.W.K. (2024) ‘AUTOMATED DIAGNOSIS OF SCHISTOSOMIASIS USING CONVOLUTIONAL NEURAL NETWORKS : A COMPARATIVE’, 12(2), pp. 1–7.
- Rahim, R. and Ahmar, A.S. (2022) ‘Cross-Validation and Validation Set Methods for Choosing K in KNN Algorithm for Healthcare Case Study’, *JINAV: Journal of Information and Visualization*, 3(1), pp. 57–61. Available at: <https://doi.org/10.35877/454ri.jinav1557>.
- Rahmawati, D. *et al.* (2021) ‘Identification and Classification of Pathogenic Bacteria Using the K-Nearest Neighbor Method’, *JEEE-U (Journal of Electrical and Electronic Engineering-UMSIDA)*, 5(1), pp. 60–70. Available at: <https://doi.org/10.21070/jeeeu.v5i1.1221>.
- Roihan, A., Sunarya, P.A. and Rafika, A.S. (2020) ‘Pemanfaatan Machine Learning dalam Berbagai Bidang: Review paper’, *IJCIT (Indonesian Journal on Computer and Information Technology)*, 5(1), pp. 75–82. Available at: <https://doi.org/10.31294/ijcit.v5i1.7951>.
- Rojas, E. *et al.* (2025) ‘Computer Viewing Model for Classification of Erythrocytes Infected with Plasmodium spp. Applied to Malaria Diagnosis Using Optical Microscope’, *Medicina (Lithuania)*, 61(5), pp. 1–11. Available at: <https://doi.org/10.3390/medicina61050940>.
- Sakti, R. and Daulay, A. (2024) ‘Analisis Kritis dan Pengembangan Algoritma K-Nearest Neighbor ( KNN ): Sebuah Tinjauan Literatur’, 4(2), pp. 131–141.

Available at: <https://doi.org/https://doi.org/10.47709/jpsk.v4i02.5055>.

- Salsabila, Martha, S. and Andani, W. (2024) 'Komparasi Algoritma K-Nearest Neighbor Dengan Euclidean Distance dan Manhattan Distance Untuk Klasifikasi Stunting Balita', *Buletin Ilmiah Math. Stat. dan Terapannya (Bimaster)*, 13(2), pp. 285–292.
- Setiawan, A.W. *et al.* (2021) 'Deteksi Malaria Berbasis Segmentasi Warna Citra Dan Pembelajaran Mesin Malaria Detection Using Color Image Segmentation and Machine Learning', *Jurnal Teknologi Informasi dan Ilmu Komputer (JTIK)*, 8(4), pp. 769–776. Available at: <https://doi.org/10.25126/jtiik.202184377>.
- Sora-Cardenas, J. *et al.* (2025) 'Image-Based Detection and Classification of Malaria Parasites and Leukocytes with Quality Assessment of Romanowsky-Stained Blood Smears', *Sensors*, 25(2), pp. 1–18. Available at: <https://doi.org/10.3390/s25020390>.
- Syahrudin, Negara, H.R.P. and Mandailina, V. (2017) 'Pengembangan Matlab Sebagai Aplikasi Project dalam Pembelajaran Kalkulus', *Seminar Nasional Kedua Pendidikan Berkemajuan dan Menggembirakan*, pp. 379–387.
- Syahrudin, S. and Mandailina, V. (2017) 'Pengembangan Modul Pemrograman Komputer Berbasis Matlab', *JTAM | Jurnal Teori dan Aplikasi Matematika*, 1(1), p. 1. Available at: <https://doi.org/10.31764/jtam.v1i1.1>.
- Talo, M. (2019) 'An Automated Deep Learning Approach for Bacterial\_', pp. 1–5.
- Wijoyo A *et al.* (2024) 'Pembelajaran Machine Learning', *OKTAL (Jurnal Ilmu Komputer dan Science)*, 3(2), pp. 375–380. Available at: <https://journal.mediapublikasi.id/index.php/oktal/article/view/2305>.
- Yohannes, Y., Devella, S. and Arianto, K. (2020) 'Deteksi Penyakit Malaria Menggunakan Convolutional Neural Network Berbasis Saliency', *JUITA: Jurnal Informatika*, 8(1), p. 37. Available at: <https://doi.org/10.30595/juita.v8i1.6671>.