

DAFTAR PUSTAKA

- [1] W. H. Organization, *World malaria report 2019*. 2019.
- [2] H. A. Nugroho, S. A. Akbar, and E. E. H. Murhandarwati, "Feature extraction and classification for detection malaria parasites in thin blood smear," *ICITACEE 2015 - 2nd Int. Conf. Inf. Technol. Comput. Electr. Eng. Green Technol. Strength. Inf. Technol. Electr. Comput. Eng. Implementation, Proc.*, vol. 1, no. c, pp. 197–201, 2016.
- [3] A. S. Abdul Nasir, M. Y. Mashor, and Z. Mohamed, "Segmentation based approach for detection of malaria parasites using moving k-means clustering," *2012 IEEE-EMBS Conf. Biomed. Eng. Sci. IECBES 2012*, no. December, pp. 653–658, 2012.
- [4] S. Kareem, I. Kale, and R. C. S. Morling, "Automated malaria parasite detection in thin blood films:-A hybrid illumination and color constancy insensitive, morphological approach," *IEEE Asia-Pacific Conf. Circuits Syst. Proceedings, APCCAS*, pp. 240–243, 2012.
- [5] L. Rosado, J. M. C. Da Costa, D. Elias, and J. S. Cardoso, "Automated Detection of Malaria Parasites on Thick Blood Smears via Mobile Devices," *Procedia Comput. Sci.*, vol. 90, no. July, pp. 138–144, 2016.
- [6] S. R. Abidin, U. Salamah, and A. S. Nugroho, "Segmentation of malaria parasite candidates from thick blood smear microphotographs image using active contour without edge," *Proc. 2016 1st Int. Conf. Biomed. Eng. Empower. Biomed. Technol. Better Futur. IBIOMED 2016*, pp. 8–13, 2016.

- [7] C. Mehanian *et al.*, “Computer-Automated Malaria Diagnosis and Quantitation Using Convolutional Neural Networks,” *IEEE Int. Conf. Comput. Vis. Work.*, pp. 116–125, 2017.
- [8] M. Elter, E. Haßlmeyer, and T. Zerfaß, “Detection of malaria parasites in thick blood films,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, pp. 5140–5144, 2011.
- [9] I. R. Dave, “Image analysis for malaria parasite detection from microscopic images of thick blood smear,” *Proc. 2017 Int. Conf. Wirel. Commun. Signal Process. Networking, WiSPNET 2017*, vol. 2018-Janua, pp. 1303–1307, 2017.
- [10] S. Chibuta and A. C. Acar, “Real-time Malaria Parasite Screening in Thick Blood Smears for Low-Resource Setting,” *J. Digit. Imaging*, vol. 33, no. 3, pp. 763–775, 2020.
- [11] M. Poostchi, K. Silamut, R. J. Maude, S. Jaeger, and G. Thoma, “Image analysis and machine learning for detecting malaria,” *Transl. Res.*, vol. 194, no. March, pp. 36–55, 2018.
- [12] J. Cervantes, F. Garcia-Lamont, L. Rodríguez-Mazahua, and A. Lopez, “A comprehensive survey on support vector machine classification: Applications, challenges and trends,” *Neurocomputing*, no. xxxx, 2020.
- [13] T. K. Bhowmik, P. Ghanty, A. Roy, and S. K. Parui, “SVM-based hierarchical architectures for handwritten Bangla character recognition,” *Int. J. Doc. Anal. Recognit.*, vol. 12, no. 2, pp. 97–108, 2009.

- [14] B. Y. Sun, D. S. Huang, and H. T. Fang, "Lidar signal denoising using least-squares support vector machine," *IEEE Signal Process. Lett.*, vol. 12, no. 2, pp. 101–104, 2005.
- [15] WHO, "Malaria microscopy quality assurance manual-Ver. 2," *World Heal. Organ.*, p. 140, 2016.
- [16] W. Jiang and S. Siddiqui, "Hyper-parameter optimization for support vector machines using stochastic gradient descent and dual coordinate descent," *EURO J. Comput. Optim.*, vol. 8, no. 1, pp. 85–101, 2019.
- [17] Q. Cao, L. Yu, and M. Cheng, "A brief overview on parameter optimization of support vector machine," *Comput. Intell. Ind. Eng.*, vol. 1, no. Smne, pp. 417–426, 2014.
- [18] M. Gang, Z. Wei, and C. Xiaolin, "A novel particle swarm optimization algorithm based on particle migration," *Appl. Math. Comput.*, vol. 218, no. 11, pp. 6620–6626, 2012.
- [19] X. Yang, J. Yuan, J. Yuan, and H. Mao, "A modified particle swarm optimizer with dynamic adaptation," *Appl. Math. Comput.*, vol. 189, no. 2, pp. 1205–1213, 2007.
- [20] H. Wang, H. Sun, C. Li, S. Rahnamayan, and J. S. Pan, "Diversity enhanced particle swarm optimization with neighborhood search," *Inf. Sci. (Ny)*, vol. 223, pp. 119–135, 2013.
- [21] M. Kurniawan and N. Suciati, "Modifikasi Kombinasi Particle Swarm Optimization dan Genetic Algorithm untuk Permasalahan Fungsi Non-Linier," *INTEGER J. Inf. Technol.*, vol. 2, no. 1998, pp. 31–40, 2017.

- [22] F. Z. Rahmanti, N. K. Ningrum, P. W. Adi, and M. H. Purnomo, "A comparison of plasmodium falciparum identification from digitalization microscopic thick blood film," *Proc. 2016 1st Int. Conf. Biomed. Eng. Empower. Biomed. Technol. Better Futur. IBIOMED 2016*, 2016.
- [23] F. Yang *et al.*, "Deep Learning for Smartphone-based Malaria Parasite Detection in Thick Blood Smears," *IEEE J. Biomed. Heal. Informatics*, vol. PP, pp. 1–1, 2018.
- [24] F. M. Azif, "Deteksi parasit plasmodium pada citra digital sediaan darah tebal," Universitas Gadjah Mada, 2019.
- [25] C. L. Huang and C. J. Wang, "A GA-based feature selection and parameters optimization for support vector machines," *Expert Syst. Appl.*, vol. 31, no. 2, pp. 231–240, 2006.
- [26] W. A. Saputra, H. A. Nugroho, and A. E. Permanasari, *Deteksi Otomatis Plasmodium Region of Interest pada Citra Sediaan Darah Tipis untuk Mendiagnosis Malaria*. 2017.
- [27] W. Rinawati and F. Henrika, "Diagnosis Laboratorium Malaria," *J Indones. Med. Assoc.*, vol. 69, no. 10, pp. 327–335, 2019.
- [28] S. Hery, "Malaria," *Lab Sistematis Hewan Sub Parasitologi Fakultas Biologi UGM*, 2018. [Online]. Available: <https://zoonosis.biologi.ugm.ac.id/malaria/2/>. [Accessed: 30-Mar-2021].
- [29] T. W. Mwangi, M. Mohammed, H. Dayo, R. W. Snow, and K. Marsh, "Clinical algorithms for malaria diagnosis lack utility among people of different age groups," *Trop. Med. Int. Heal.*, vol. 10, no. 6, pp. 530–536,

2005.

- [30] R. C. She, M. L. Rawlins, R. Mohl, S. L. Perkins, H. R. Hill, and C. M. Litwin, "Comparison of immunofluorescence antibody testing and two enzyme immunoassays in the serologic diagnosis of malaria," *J. Travel Med.*, vol. 14, no. 2, pp. 105–111, 2007.
- [31] S. Kuladeepa Ananda Vaidya, "National Journal of Medical Research Quantitative Buffy Coat (Qbc) Test and Other Diagnostic Techniques for Diagnosing Malaria: Review of Literature," *Natl. J. Med. Res.*, vol. 2, no. 3, p. 3, 2012.
- [32] H. Harafani, "Support Vector Machine Parameter Optimization to Improve Liver Disease Estimation with Genetic Algorithm," *SinkrOn*, vol. 4, no. 2, p. 106, 2020.
- [33] X. Li, S. Wu, X. Li, H. Yuan, and D. Zhao, "Particle Swarm Optimization-Support Vector Machine Model for Machinery Fault Diagnoses in High-Voltage Circuit Breakers," *Chinese J. Mech. Eng. (English Ed.)*, vol. 33, no. 1, 2020.
- [34] A. Tharwat and T. Gabel, "Parameters optimization of support vector machines for imbalanced data using social ski driver algorithm," *Neural Comput. Appl.*, vol. 32, no. 11, pp. 6925–6938, 2019.
- [35] H. Huang *et al.*, "A new fruit fly optimization algorithm enhanced support vector machine for diagnosis of breast cancer based on high-level features," *BMC Bioinformatics*, vol. 20, no. Suppl 8, pp. 1–14, 2019.

- [36] A. Kadir and A. Susanto, “Teori dan Aplikasi Pengolahan Citra,” no. January 2013, p. 640, 2013.
- [37] A. Fauzan, “Konversi Ruang Warna RGB ke YIQ dan YIQ ke RGB,” *Kita Informatika*, 2017. [Online]. Available: <https://www.kitainformatika.com/2017/01/konversi-ruang-warna-rgb-ke-yiq-dan-yiq.html>. [Accessed: 12-Jul-2022].
- [38] M. Nurkamid and Sutejo, “Metode Kecerahan Citra Kontras Citra Dan Penajaman Citra Untuk Peningkatan Mutu Citra,” *J. Univ. Muria Kudus*, no. January, pp. 1–26, 2017.
- [39] P. Barita and N. Simangunsong, “Reduksi Noise Salt And Pepper Pada Citra Digital Menggunakan Metode ArithMatic Mean Filter,” *KOMIK (Konferensi Nas. Teknol. Inf. dan Komputer)*, vol. 2, no. 1, pp. 16–18, 2017.
- [40] B. Citra *et al.*, “Binerisasi Citra Tangan Dengan Metode Otsu,” *Maj. Ilm. Teknol. Elektro*, vol. 3, no. 2, pp. 11–13, 2012.
- [41] B. Pratama, *Operasi Morfologi Pada Citra Biner*, 01 ed. Bandung: Ilmukomputer.com, 2007.
- [42] I. G. R. A. Sugiarta, M. Sudarma, and I. M. O. Widyantara, “Ekstraksi Fitur Warna, Tekstur dan Bentuk untuk Clustered-Based Retrieval of Images (CLUE),” *Maj. Ilm. Teknol. Elektro*, vol. 16, no. 1, p. 85, 2016.
- [43] M. Z. Lubis, “Processing: Marine Technology – Bogor Agricultural University Modul 1 – Image Enhancement Using Matlab,” vol. 2, no. June, 2016.

- [44] A. Pendeteksi, K. Melalui, I. Mata, M. M. B, and A. S. Hidayat, "Implementasi Algoritma GLCM Dan MED pada," *MIND Journa*, vol. 2, no. 2, pp. 23–41, 2017.
- [45] R. M. Haralick, I. Dinstein, and K. Shanmugam, "Textural Features for Image Classification," *IEEE Trans. Syst. Man Cybern.*, vol. SMC-3, no. 6, pp. 610–621, 1973.
- [46] J. W. G. Putra, "Seleksi Fitur dan Metode Evaluasi," in *Pengenalan Konsep Pembelajaran Mesin dan Deep Learning*, 1.4., Tokyo, japan, 2020, p. 227.
- [47] I. M. Parapat, M. T. Furqon, and Sutrisno, "Penerapan Metode Support Vector Machine (SVM) Pada Klasifikasi Penyimpangan Tumbuh Kembang Anak," *J. Pengemb. Teknol. Inf. dan Ilmu Komput.*, vol. 2, no. 10, pp. 3163–3169, 2018.
- [48] K. Sembiring, *Penerapan Teknik Support Vector Machine untuk Pendeteksian Intrusi pada Jaringan*, no. September. 2007.
- [49] J. Bergstra and Y. Bengio, "Random search for hyper-parameter optimization," *J. Mach. Learn. Res.*, vol. 13, pp. 281–305, 2012.
- [50] H. Ian P. T. W. U. Yasin, "Prediksi Harga Saham Menggunakan Support Vector Regression Dengan Algoritma Grid Search," *Media Stat.*, vol. 1, pp. 29–35, 2014.
- [51] I. Syarif, A. Prugel-Bennett, and G. Wills, "SVM Parameter Optimization using Grid Search and Genetic Algorithm to Improve Classification Performance," *TELKOMNIKA (Telecommunication Comput. Electron. Control.*, vol. 14, no. 4, p. 1502, 2016.

