

DAFTAR PUSTAKA

- [1] I. H. A. Wahab, “Deteksi Parasit Malaria dalam Sampel Darah Untuk Menunjang Keperluan Diagnosis Berbasis Data Ciri Tekstur Warna,” Dissertation. Universitas Gadjah Mada, 2015.
- [2] Kementerian Kesehatan RI, “Situasi Malaria di Indonesia,” *Infodatin - Pusat Data dan Informasi Kementerian Kesehatan RI*, Jakarta, Apr-2014.
- [3] Kementerian Kesehatan RI, “Malaria,” *Infodatin - Pusat Data dan Informasi Kementerian Kesehatan RI*, Jakarta, Apr-2016.
- [4] Kementerian Kesehatan RI, “Inilah Fakta Keberhasilan Pengendalian Malaria,” 2016. [Online]. Available: <http://www.depkes.go.id/article/print/16050200003/inilah-fakta-keberhasilan-pengendalian-malaria.html>
1/1%0A. [Accessed: 17-Jun-2017].
- [5] V. J. Bharti AR, Patra KP, Chuquiyauri R, Kosek M, Gilman RH, LlanosCuentas A, “Polymerase chain reaction detection of Plasmodium vivax and Plasmodium falciparum DNA from stored serum samples: implications for retrospective diagnosis of malaria,” *Am. J. Trop. Med. Hyg.*, vol. 77, pp. 444–446, 2007.
- [6] H. A. Nugroho, S. A. Akbar, and E. E. H. Murhandarwati, “Feature Extraction and Classification for Detection Malaria Parasites in Thin Blood Smear,” *Inf. Technol. Comput. Electr. Eng.*, vol. 2, 2015.
- [7] A. S. A. Nasir, M. Y. Mashor, and Z. Mohamed, “Segmentation based approach for detection of malaria parasites using moving k-means clustering,” *IEEE EMBS Conf. Biomed. Eng. Sci.*, pp. 653–658, 2012.
- [8] 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,” *Circuits Syst.*, pp. 240–

243, 2012.

- [9] L. Siahaan, “Perbandingan Rapid Diagnostic Test dan Pemeriksaan Mikroskopik pada Diagnosis Malaria,” *J. Kesehat. Masy. Nas.*, vol. 5, no. 6, pp. 250–253, 2011.
- [10] N. Tangpukdee, C. Duangdee, P. Wilairatana, and S. Krudsood, “Malaria Diagnosis : A Brief Review,” *Korean J Parasitol*, vol. 47, no. 2, pp. 93–102, 2009.
- [11] A. Pujiyanta and A. Pujiantoro, “Sistem Pakar Penentuan Jenis Penyakit Hati dengan Metode Inferensi Fuzzy Tsukamoto,” *J. Inform.*, vol. 6, no. 1, pp. 617–629, 2012.
- [12] Son Ali Akbar, “Analisis Identifikasi Parasit Malaria dalam Sel Darah Manusia Berbasis Citra Digital,” Thesis. Universitas Gadjah Mada, 2015.
- [13] S. S. Savkare, “Automated System for Malaria Parasite Identification,” *Int. Conf. Commun. Inf. Comput. Technol.*, pp. 15–18, 2015.
- [14] N. Abbas, T. Saba, and D. Mohamad, “Machine aided malaria parasitemia detection in Giemsa-stained thin blood Smears,” *Nat. Comput. Appl. Forum 2016*, 2016.
- [15] M. S. Wibawa, “Klasifikasi Fase Dan Spesies Parasit Plasmodium Falciparum Dan Plasmodium Vivax Pada Citra Mikroskopis Digital Sediaan Darah Tipis,” Thesis. Universitas Gadjah Mada, 2016.
- [16] J. Gatc, F. Maspiyanti, D. Sarwinda, and A. M. Arymurthy, “Plasmodium Parasite Detection on Red Blood Cell Image for the Diagnosis of Malaria Using Double Thresholding,” *ICACSYS*, 2013.
- [17] S. Kareem, R. C. S. Morling, and I. Kale, “A novel method to count the red blood cells in thin blood films,” *2011 IEEE Int. Symp. Circuits Syst.*, pp. 1021–1024, 2011.

- [18] R. Dey, K. Roy, D. Bhattacharjee, M. Nasipuri, and P. Ghosh, "An automated system for segmenting platelets from microscopic images of blood cells," *2015 Int. Symp. Adv. Comput. Commun. ISACC 2015*, pp. 230–237, 2016.
- [19] F. Maspiyanti, S. R. C. Nursari, A. Murtako, and J. Gatc, "Plasmodium Falciparum Stages Classification on Red Blood Cell Image using Region Property," *ICITISEE*, pp. 105–109, 2016.
- [20] M. Ghosh, D. Das, C. Chakraborty, and A. K. Ray, "Plasmodium vivax segmentation using modified fuzzy divergence," *Int. Conf. Image Inf. Process.*, pp. 1–5, 2011.
- [21] F. Z. Rahmanti, N. K. Ningrum, N. Kartika, I. Mauridhi, and H. Purnomo, "Plasmodium Vivax Classification from Digitalization Microscopic Thick Blood Film Using Combination of Second Order Statistical Feature Extraction and K-Nearest Neighbor (K-NN) Classifier Method," *ICICI-BME*, pp. 79–83, 2015.
- [22] A. Bashir, Z. A. Mustafa, I. Abdelhameid, and R. Ibrahim, "Detection of Malaria Parasites Using Digital Image Processing," *Int. Conf. Commun. Control. Comput. Electron. Eng. 2017*, no. c, 2017.
- [23] A. Nanoti, S. Jain, C. Gupta, and G. Vyas, "Detection of malaria parasite species and life cycle stages using microscopic images of thin blood smear," *Int. Conf. Inven. Comput. Technol.*, 2016.
- [24] S. Kareem, I. Kale, and R. C. S. Morling, "Automated P.falciparum detection system for post-treatment malaria diagnosis using modified annular ring ratio method," *Proc. - 2012 14th Int. Conf. Model. Simulation, UKSim 2012*, pp. 432–436, 2012.
- [25] I. K. E. Purnama, F. Z. Rahmanti, and M. H. Purnomo, "Malaria Parasite Identification on Thick Blood Film Using Genetic Programming," *Int. Conf. Instrumentation, Commun. Inf. Technol. Biomed. Eng.*, pp. 194–198, 2013.

- [26] Z. M. Aimi S. Abdul Nasir, M.Y. Mashor, "Segmentation Based Approach for Detection of Malaria Parasites Using Moving KMeans Clustering," *Int. Conf. Biomed. Eng. Sci.*, pp. 563–658, 2012.
- [27] J. Gatc, C. Science, and F. Maspiyanti, "Red Blood Cell and White Blood Cell Classification using Double Thresholding and BLOB Analysis," *Fourth Int. Conf. Inf. Commun. Technol.*, vol. 4, no. c, pp. 147–151, 2016.
- [28] Widoyono, *Penyakit Tropis*, 2nd ed. Riau: Penerbit Erlangga, 2011.
- [29] Soedarto, *Malaria: Referensi Mutakhir*. Jakarta: Penerbit Sagung Seto, 2011.
- [30] Department of Health & Human Services, "The malaria parasite life cycle," *Centers for Disease Control and Prevention: Plasmodium vivax*, 2016. [Online]. Available: <https://www.cdc.gov/Malaria/about/biology/index.html>. [Accessed: 20-Jul-2016].
- [31] M. S. A. A. Malaria, "Pathophysiology of Malaria," 2015. [Online]. Available: <http://www.malariasite.com/tag/asexual-phase/>. [Accessed: 04-Jan-2017].
- [32] A. A. Arsin, *Malaria di Indonesia: Tinjauan Aspek Epidemiologi*. Makassar: Masagena Press, 2012.
- [33] F. J. Laihad, P. Harijanto, and J. R. Poespoprodjo, *Epidemiologi Malaria di Indonesia*, Triwulan 1. Jakarta: Kementerian Kesehatan RI, 2011.
- [34] B. Ideham and S. Pusarawati, *Penuntun Praktis Parasitologi Kedokteran*, 2nd ed. Surabaya: Airlangga University Press, 2009.
- [35] S. Gandahusada, H. D. Illahude, and W. Pribadi, *Parasitologi Kedokteran*, 3rd ed. Jakarta: Balai Penerbit FKUI, 1998.
- [36] I. M. D. Maysanjaya, "Identifikasi Fase Parasit Plasmodium Vivax Pada Citra Mikroskopis Digital Sediaan Darah Tipis," Thesis. Universitas Gadjah

Mada, 2016.

- [37] B. S. Kakkilaya, “Malaria Fever: Clinical Featuer,” *Malaria Site*, 2015. [Online]. Available: <http://www.malariasite.com/clinical-features/>. [Accessed: 04-Jan-2017].
- [38] C. for D. C. and Prevention, “Malaria Disease and Symptoms,” *U.S. Department of Health & Human Services*, 2015. [Online]. Available: <https://www.cdc.gov/malaria/about/disease.html>. [Accessed: 07-Jan-2017].
- [39] P.N. Harijanto, *Malaria (Epidemiologi, Patogenesis, Manifestasi Klinis, dan Penanganan)*. Jakarta: Penerbit Buku Kedokteran EGC, 2000.
- [40] D.H. Connor, FW Chandler, and D.Q. Schwartz, “Drawings of erythrocytic stages of malarial parasites,” 1997. [Online]. Available: <https://basicmedicalkey.com/51-apicomplexa-and-microsporidia/>. [Accessed: 25-May-2017].
- [41] M. Ekaningtias, “Pengaruh Pemberian Ekstrak Spons Hymeniacidon sp . Terhadap Tingkat Parasitemia Trypanosoma evansi pada Mencit BALB / c (Mus musculus L .),” *J. Sain Vet.*, vol. 32, no. 2, pp. 224–234, 2014.
- [42] K. Raines, “Plasmodium falciparum,” *Microbewiki*, 2016. [Online]. Available: https://microbewiki.kenyon.edu/index.php/Plasmodium_falciparum. [Accessed: 10-Feb-2017].
- [43] A. Fohlen-Walter, C. Jacob, T. Lecompte, and J.-F. Lesesve, “Laboratory Identification of Cryoglobulinemia From Automated Blood Cell Counts, Fresh Blood Samples, and Blood Films,” *Am J Clin Pathol*, 2002. [Online]. Available: http://www.medscape.com/viewarticle/433610_3. [Accessed: 09-Feb-2017].
- [44] W. P. Looareesuwan S, *Clinical Tropical Medicine*, 1st ed.

Bangkok,Thailand: Medical Media, 1999.

- [45] M. K. Mwangi TW, Mohammed M, Dayo H, Snow RW, “Clinical algorithms for malaria diagnosis lack utility among people of different age groups.,” *Trop Med Int Heal.*, vol. 10, pp. 530–536, 2005.
- [46] M. E. Reyburn H, Mbatia R, Drakeley C, Carneiro I, G. Mwerinde O, Saganda K, Shao J, Kitua A, Olomi R, and W. C. BM, “Overdiagnosis of malaria in patients with severe febrile illness in Tanzania: a prospective study.,” *Br. Med. Journal-BMJ*, vol. 329, 2004.
- [47] K. S. McMorro ML, Masanja MI, Abdulla SM, Kahigwa E, “Challenges in routine implementation and quality control of rapid diagnostic tests for malaria-Rufiji District, Tanzania,” *Am. J. Trop. Med. Hyg.*, vol. 79, pp. 385–390, 2008.
- [48] B. P. Bhandari PL, Raghuveer CV, Rajeev A, “Comparative study of peripheral blood smear, quantitative buffy coat and modified centrifuged blood smear in malaria diagnosis,” *Indian J Pathol Microbiol*, vol. 51, pp. 108–112, 2008.
- [49] W. A. Saputra, H. A. Nugroho, and A. E. Permanasari, “Toward Development of Automated Plasmodium Detection for Malaria Diagnosis in Thin Blood Smear Image: An Overview,” in *International Conference on Information Technology Systems and Innovation, ICITSI 2016 - Proceedings*, 2016.
- [50] A. Kadir and A. Susanto, *Pengolahan Citra: Teori dan Aplikasi*, 1st ed. Yogyakarta: Penerbit Andi, 2013.
- [51] D. Putra, *Pengolahan Citra Digital*, 1st ed. Yogyakarta: Penerbit Andi, 2010.
- [52] A. Kumar and F. Shaik, “Chapter 2: Importance of Image Processing,” in *Image Processing in Diabetic Related Causes*, 2015, pp. 1–56.

- [53] A. Tungkasthan and W. Premchaiswadi, "Automatic Region of Interest Detection in Natural Images," *15th WSEAS Int. Conf. Comput.*, pp. 437–444, 2011.
- [54] G. Kim and A. Torralba, "Unsupervised Detection of Regions of Interest Using Iterative Link Analysis," *Annu. Conf. Neural Inf. Process. Syst.*, pp. 1–9, 2009.
- [55] P. Kapsalas, K. Rapantzikos, A. Sofou, and Y. Avrithis, "Regions Of Interest For Accurate Object Detection," *2008 Int. Work. Content-Based Multimed. Indexing, CBMI 2008, Conf. Proc.*, pp. 147–154, 2008.
- [56] M. F. McBride and M. A. Burgman, *Expert Knowledge and Its Application in Landscape*, XIV. New York: Springer, 2012.
- [57] R. Munir, *Pengolahan Citra Digital Dengan Pendekatan Algoritmik*. Bandung: Penerbit Informatika, 2004.
- [58] C. Solomon and T. Breckon, *Fundamentals of Digital Image Processing*, 3rd ed., vol. 14, no. 8. New Jersey: Wiley-Blackwell, 2011.
- [59] W. Galyen, "ColorPicker Controls for Windows Forms," 2013. [Online]. Available: <http://www.mechanikadesign.com/software/colorpicker-controls-for-windows-forms/>. [Accessed: 08-Jan-2017].
- [60] A. K. Jain, *Fundamentals of Digital Image Processing*, vol. 46, no. 3. New Jersey: Pearson Education, 1989.
- [61] R. C. Gonzalez and R. E. Woods, *Digital image processing*. New Jersey: Pearson Education, 2008.
- [62] R. Adollah, M. Y. Mashor, N. F. M. Nasir, H. Rosline, H. Mahsin, and H. Adilah, "Blood Cell Image Segmentation: A Review," *Biomed 2008*, vol. 21, pp. 141–144, 2008.

- [63] Helmiriawan, “Rancang Bangun dan Analisis Sistem Pemantau Lalu Lintas menggunakan OpenCV dengan Algoritma CANNY dan BLOB Detection,” Undergraduate Thesis. Universitas Indonesia, 2012.
- [64] Team, “BLOB Analysis (Introduction to Video and Image Processing),” *In Depth Tutorial and Information*, 2017. [Online]. Available: <http://whatwhenhow.com/introduction-to-video-and-image-processing/blob-analysis-introduction-to-video-and-image-processing-part-1/>. [Accessed: 27-Feb-2017].
- [65] T. B. Moeslund, *Introduction to Video Image Processing*. Springer, 2012.
- [66] D. H. Sulistyawati, F. Z. Rahmanti, I. K. E. Purnama, and M. H. Purnomo, “Automatic segmentation of malaria parasites on thick blood film using blob analysis,” *2015 Int. Semin. Intell. Technol. Its Appl. ISITIA 2015 - Proceeding*, pp. 137–142, 2015.