

DAFTAR PUSTAKA

- [1] World Health Organization, Global Malaria Programme, and World Health Organization, *World Malaria Report 2015*. Geneva, Switzerland, 2015.
- [2] World Health Organization, Global Malaria Programme, and World Health Organization, *World Malaria Report 2014*. Geneva, Switzerland, 2014.
- [3] WHO, *Guidelines for The Treatment of Malaria*, 3rd ed. Geneva: WHO, 2015.
- [4] C. J. Sutherland and R. Hallett, "Detecting Malaria Parasites outside the Blood," *J. Infect. Dis.*, vol. 199, no. 11, pp. 1561–1563, Jun. 2009.
- [5] P. F. Mens, G. J. Schoone, P. A. Kager, and H. D. Schallig, "Detection and identification of human Plasmodium species with real-time quantitative nucleic acid sequence-based amplification," *Malar. J.*, vol. 5, no. 1, p. 80, 2006.
- [6] F. B. Tek, A. G. Dempster, and İ. Kale, "Parasite detection and identification for automated thin blood film malaria diagnosis," *Comput. Vis. Image Underst.*, vol. 114, no. 1, pp. 21–32, Jan. 2010.
- [7] S. Tuti and W. Worowijat, "Situasi Mikroskopis Malaria di Berbagai Laboratorium Daerah Endemik Tahun 2006," *Bul. Penelit. Sist. Kesehat.*, vol. 12, no. 4, 2009.
- [8] G. Dougherty, Ed., *Medical Image Processing*. New York, NY: Springer New York, 2011.
- [9] S. A. Akbar, H. A. Nugroho, and O. Wahyununggoro, "Analisis Identifikasi Parasit Malaria dalam Sel Darah Manusia Berbasis Citra Digital," Universitas Gadjah Mada, Yogyakarta, 2015.
- [10] N. A. Khan, H. Pervaz, A. K. Latif, A. Musharraf, and others, "Unsupervised identification of malaria parasites using computer vision," in *Computer Science and Software Engineering (JCSSE), 2014 11th International Joint Conference on*, 2014, pp. 263–267.
- [11] Z. May, A. M. Aziz, S. Sarah, and R. 'ahtuladawiah Salamat, "Automated quantification and classification of malaria parasites in thin blood smears," in *Signal and Image Processing Applications (ICSIPA), 2013 IEEE International Conference on*, 2013, pp. 369–373.
- [12] M. Elter, E. Ha\slmeyer, and T. Zerfa\s s, "Detection of malaria parasites in thick blood films," in *Engineering in Medicine and Biology Society, EMBC, 2011 Annual International Conference of the IEEE*, 2011, pp. 5140–5144.
- [13] I. H. A. Wahab and A. Susanto, "Deteksi Parasit Malaria dalam Sampel Darah Untuk Menunjang Keperluan Diagnosis Berbasis Data Ciri Tekstur Warna," Universitas Gadjah Mada, Yogyakarta, 2015.
- [14] I. K. E. Purnama, F. Z. Rahmanti, and M. H. Purnomo, "Malaria parasite identification on thick blood film using genetic programming," in *Instrumentation, Communications, Information Technology, and Biomedical Engineering (ICICI-BME), 2013 3rd International Conference on*, 2013, pp. 194–198.
- [15] S. S. Savkare and S. P. Narote, "Automated system for malaria parasite identification," in *Communication, Information & Computing Technology*

- (*ICCICT*), *2015 International Conference on*, 2015, pp. 1–4.
- [16] World Health Organization, Global Malaria Programme, and World Health Organization, *World Malaria Report 2014*. Geneva, Switzerland, 2014.
- [17] C.-C. for D. C. and Prevention, “CDC - Malaria - About Malaria - Biology.” [Online]. Available: <http://www.cdc.gov/malaria/about/biology/>. [Accessed: 09-Jun-2015].
- [18] K. Doi, “Computer-aided diagnosis in medical imaging: historical review, current status and future potential,” *Comput. Med. Imaging Graph.*, vol. 31, no. 4, pp. 198–211, 2007.
- [19] A. Mehrjou, T. Abbasian, and M. Izadi, “Automatic Malaria Diagnosis System,” in *Robotics and Mechatronics (ICRoM), 2013 First RSI/ISM International Conference on*, 2013, pp. 205–211.
- [20] A. S. Abdul Nasir, M. Y. Mashor, and Z. Mohamed, “Segmentation based approach for detection of malaria parasites using moving k-means clustering,” in *Biomedical Engineering and Sciences (IECBES), 2012 IEEE EMBS Conference on*, 2012, pp. 653–658.
- [21] A. K. Jain, *Fundamentals of Digital Image Processing*, 1st ed. New Jersey: Prentice-Hall Inc, 1989.
- [22] N. Efford, *Digital Image Processing: A Practical Introduction Using Java*. Addison-Wesley, 2000.
- [23] M. E. Celebi and G. Schaefer, Eds., *Color medical image analysis*. Dordrecht: Springer, 2013.
- [24] H. Yao, Q. Duan, D. Li, and J. Wang, “An improved -means clustering algorithm for fish image segmentation,” *Math. Comput. Model.*, vol. 58, no. 3–4, pp. 790–798, Aug. 2013.
- [25] A. Pugazhenthii and J. Singhai, “Automatic centroids selection in K-means clustering based image segmentation,” in *Communications and Signal Processing (ICCSP), 2014 International Conference on*, 2014, pp. 1279–1284.
- [26] M. Tian, Q. Yang, A. Maier, I. Schasiepen, N. Maass, and M. Elter, “Automatic Histogram-Based Initialization of K-Means Clustering in CT,” in *Bildverarbeitung für die Medizin 2013*, Springer, 2013, pp. 277–282.
- [27] E. Olson, “Particle Shape Factors and Their Use in Image Analysis Part 1: Theory,” *J. GXP Compliance*, vol. 15, no. 3, p. 85, 2011.
- [28] B. Jähne, *Digital image processing*, 6th rev. and ext. ed. Berlin ; New York: Springer, 2005.
- [29] A. Materka, M. Strzelecki, and others, “Texture analysis methods—a review,” *Tech. Univ. Lodz Inst. Electron. COST B11 Rep. Bruss.*, pp. 9–11, 1998.
- [30] F. Albrechtsen and others, “Statistical texture measures computed from gray level cooccurrence matrices,” *Image Process. Lab. Dep. Inform. Univ. Oslo*, pp. 1–14, 2008.
- [31] W. Awada, T. M. Khoshgoftaar, D. Dittman, R. Wald, and A. Napolitano, “A review of the stability of feature selection techniques for bioinformatics data,” in *Information Reuse and Integration (IRI), 2012 IEEE 13th International Conference on*, 2012, pp. 356–363.
- [32] M. Dash and H. Liu, “Feature selection for classification,” *Intell. Data*

- Anal.*, vol. 1, no. 1, pp. 131–156, 1997.
- [33] S. M. V. Kumar, “Feature selection: A literature review,” *Smart Comput. Rev.*, vol. 4, no. 3, pp. 211–229.
- [34] H. Liu and H. Motoda, *Feature Selection for Knowledge Discovery and Data Mining*. Boston, MA: Springer US, 1998.
- [35] B. Kumari and T. Swarnkar, “Filter versus Wrapper Feature Subset Selection in Large Dimensionality Micro array: A Review,” *IJCSIT Int. J. Comput. Sci. Inf. Technol.*, vol. 2, no. 3, 2011.
- [36] R. Kohavi and G. H. John, “Wrappers for feature subset selection,” *Artif. Intell.*, vol. 97, no. 1–2, pp. 273–324, Dec. 1997.
- [37] M. Gütlein, E. Frank, M. Hall, and A. Karwath, “Large-scale attribute selection using wrappers,” in *Computational Intelligence and Data Mining, 2009. CIDM’09. IEEE Symposium on*, 2009, pp. 332–339.
- [38] T. Breuel and F. Shafait, “AutoMLP: Simple, Effective, Fully Automated Learning Rate and Size Adjustment,” *Learn. Workshop*, 2010.
- [39] L. Jiang, Z. Cai, D. Wang, and S. Jiang, “Survey of Improving K-Nearest-Neighbor for Classification,” in *FSKD (1)*, 2007, pp. 679–683.
- [40] S. B. Kotsiantis, I. D. Zaharakis, and P. E. Pintelas, “Machine learning: a review of classification and combining techniques,” *Artif. Intell. Rev.*, vol. 26, no. 3, pp. 159–190, Nov. 2006.
- [41] C. Fernandez-Lozano, E. Fernández-Blanco, K. Dave, N. Pedreira, M. Gestal, J. Dorado, and C. R. Munteanu, “Improving enzyme regulatory protein classification by means of SVM-RFE feature selection,” *Mol. Biosyst.*, vol. 10, no. 5, pp. 1063–1071, Apr. 2014.
- [42] M. A. Hearst, S. T. Dumais, E. Osman, J. Platt, and S. Bernhard, “Support Vector Machine,” *IEEE Intell. Syst. Their Appl.*, vol. 13, no. 4, pp. 18–28, 1998.
- [43] C.-W. Hsu, C.-C. Chang, C.-J. Lin, and others, *A practical guide to support vector classification*. 2003.
- [44] M. Aly, “Survey on multiclass classification methods,” *Neural Netw*, pp. 1–9, 2005.
- [45] D. Michie, D. J. Spiegelhalter, and C. C. Taylor, Eds., *Machine learning, neural and statistical classification*. New York: Ellis Horwood, 1994.
- [46] J. Han, M. Kamber, and J. Pei, *Data Mining Concepts and Techniques, Third Edition*. Waltham, Mass.: Morgan Kaufmann Publishers, 2012.
- [47] 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,” in *Advanced Computer Science and Information Systems (ICACSIS)*, Bali, Indonesia, 2013.
- [48] M. Fatourech, R. K. Ward, S. G. Mason, J. Huggins, A. Schlögl, and G. E. Birch, “Comparison of Evaluation Metrics in Classification Applications with Imbalanced Datasets,” 2008, pp. 777–782.
- [49] M. Sokolova and G. Lapalme, “A systematic analysis of performance measures for classification tasks,” *Inf. Process. Manag.*, vol. 45, no. 4, pp. 427–437, Jul. 2009.
- [50] P. Yin, *Pattern recognition techniques, technology and applications*. Rijek,

Crotia: InTech, 2008.

- [51] N. Jamil and Z. A. Bakar, "Shape-based image retrieval of songket motifs," in *19th Annual Conference of the NACCQ*, 2006, pp. 213–219.
- [52] M. Tuceryan and A. K. Jain, "Texture analysis," *Handb. Pattern Recognit. Comput. Vis.*, vol. 2, pp. 207–248, 1998.
- [53] A. Janecek, W. N. Gansterer, M. Demel, and G. Ecker, "On the Relationship Between Feature Selection and Classification Accuracy," in *FSDM*, 2008, pp. 90–105.