REFERENSI

1. Raof, R. A. A., Salleh, Z., Sahidan, S. I., Mashor, M. Y., Noor, S. M., Idris, F. M., & Hasan, H., 2008. Color thresholding method for image segmentation algorithm of Ziehl-Neelsen sputum slide images. In *Electrical Engineering, Computing Science and Automatic Control, 2008. CCE 2008. 5th International Conference on* (pp. 212-217). IEEE.

2. Sugirtha, G. E., & Murugesan, G., Detection of tuberculosis bacilli from microscopic sputum smear images. In 2017 Third International Conference on Bio signals, Images and Instrumentation (ICBSII), 2017, pp. 1 - 6.

3. World Health Organization, Global tuberculosis report 2019. Geneva (Switzerland): World Health Organization; 2019, pp. 1-297.

4. RI, K. K. 2016. Sekretariat Jenderal Profil Kesehatan Indonesia Tahun 2015. *Jakarta: Kementerian Kesehatan RI*. ISBN 978-602-416-065-4.

5. Priya, E., & Srinivasan, S. 2016. Automated object and image level classification of TB images using support vector neural network classifier. *Biocybernetics and Biomedical Engineering*, *36*(4): 670-678.

6. Rajinikanth, V., & Couceiro, M. S. 2015. RGB histogram based color image segmentation using firefly algorithm. *Procedia Computer Science*, *46:* 1449-1457.

7. Costa Filho, C. F. F., Levy, P. C., Xavier, C. D. M., Fujimoto, L. B. M., & Costa, M. G. F. 2015. Automatic identification of tuberculosis mycobacterium. *Research on Biomedical Engineering*, *31*(1): 33-43.

8. Rulaningtyas, R., Suksmono, A. B., Mengko, T. L., & Saptawati, P. 2016. Nearest patch matching for color image segmentation supporting neural network classification in pulmonary tuberculosis identification. *In AIP Conference Proceedings* (Vol. 1718, No. 1, p. 120002). AIP Publishing.

9. Panicker, R. O., Soman, B., Saini, G., & Rajan, J. 2016. A review of automatic methods based on image processing techniques for tuberculosis detection from microscopic sputum smear images. *Journal of medical systems*, *40*(1), 17.

10. Halder, Rohit & Chatterjee, Rajdeep & Sanyal, Debarshi & Mallick, Pradeep Kumar. 2019. Deep Learning based Smart Attendance Monitoring System.

11. Purwanti, Endah, and Prihartini Widiyanti., Using learning vector quantization method for automated identification of mycobacterium tuberculosis. Indonesian Journal of Tropical

and Infectious Disease, Vol.3, no 1, 2015, pp. 26-29.

12. Arisgraha, Franky, Prihartini Widiyanti, and Retna Apsari., Digital Detection System Design Of Mycobacterium Tuberculosis Through Extraction Of Sputum Image Using Neural Network Method. Indonesian Journal of Tropical and Infectious Disease. Vol.3, no 1, 2015, pp. 35-38.

13. Dinesh Jackson Samuel, R., Rajesh Kanna, B. Tuberculosis (TB) detection system using deep neural networks. Neural Comput & Applic, Vol.31, 2019, pp. 1533–1545.

14. Ker, J., Wang, L., Rao, J., & Lim, T., Deep learning applications in medical image analysis. Ieee Access, Vol. 6, 2017, pp. 9375-9389.

15. Munir, K., Elahi, H., Ayub, A., Frezza, F., & Rizzi, A., Cancer Diagnosis Using Deep Learning: A Bibliographic Review, Cancers, 2019, pp. 1-36.

16. He, K., Zhang, X., Ren, S., & Sun, J., Deep residual learning for image recognition. In Proceedings of the IEEE conference on computer vision and pattern recognition, 2016, pp. 770-778.

17. M. drg. Oscar Primadi, Profil Kesehatan Republik Indonesia Tahun 2013. 2014, pp. 1-220.

18. Indonesia, K. 2015. Profil kesehatan Indonesia. Jakarta: Kementerian Kesehatan Republik Indonesia, 145.

19. Vanitha, L., & Venmathi, A. R. 2011. Classification of medical images using support vector machine. In *Int. Conf. Inf. Netw. Topol* (Vol. 4).

20. Khutlang, R., Krishnan, S., Dendere, R., Whitelaw, A., Veropoulos, K., Learmonth, G., & Douglas, T. S. 2010. Classification of Mycobacterium tuberculosis in images of ZN-stained sputum smears. *IEEE Transactions on Information Technology in Biomedicine*, *14*(4), 949-957.

21. Samuel, R. D. J., & Kanna, B. R. 2019. Tuberculosis (TB) detection system using deep neural networks. Neural Computing and Applications, 31(5), 1533-1545.

22. El-Melegy, M., Mohamed, D., ElMelegy, T., & Abdelrahman, M. 2019. Identification of Tuberculosis Bacilli in ZN-Stained Sputum Smear Images: A Deep Learning Approach. *In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops* (pp. 0-0).

23. Gonzalez, R. C., and R. W. Woods. 2002. Digital Image Processing. 2nd edition. New Jersey: Prentice-Hall.Inc.

24. Prasetyo, E. 2012. Data Mining Konsep dan Aplikasi Menggunakan MATLAB. Yogyakarta: Andi.

25. Arisgraha, F., Widiyanti, P., & Apsari, R. 2015. Digital Detection System Design of Mycobacterium Tuberculosis Through Extraction of Sputum Image Using Neural Network Method. Indonesian Journal of Tropical and Infectious Disease, 3(1), 35-38.

26. Kusumadewi, S., 2004, Membangun Jaringan Syaraf Tiruan, Yogyakarta: Graha Ilmu

27. Ruder, S. (2017). An overview of gradient descent optimization. Retrieved from https://arxiv.org/abs/1609.04747

28. Hinton, G. E., Srivastava, N., & Swersky, K. (2012). Lecture 6a- overview of mini-batch gradient descent. COURSERA: Neural Networks for Machine Learning, 31. Retrieved from http://www.cs.toronto.edu/~tijmen/csc321/slides/lecture_slides_lec6.pdf

29. Kingma, D. P., & Ba, J. (2015). Adam: A Method for Stochastic Optimization. In ICLR (pp.1–15).
https://doi.org/http://doi.acm.org.ezproxy.lib.ucf.edu/10.1145/1830483.1830503

30. Deng, J., Dong, W., Socher, R., Li, L., Li, K., & Fei-fei, L. (2018). ImageNet : A LargeScale Hierarchical Image Database. Retrieved from
http://www.imagenet.org/papers/imagenet_cvpr09.pdf

31. Krizhevsky, A., Sutskever, I., & Hinton, G. E. (2012). ImageNet Classification with Deep Convolutional Neural Networks. Retrieved from https://papers.nips.cc/paper/4824-imagenet-classification-with-deep-convolutional-neural-networks.pdf

32. Simonyan, K., & Zisserman, A. (2015). Very Deep Convolutional Networks for LargeScale Image Recognition. In ICLR (pp. 1–14).
https://doi.org/10.1016/j.infsof.2008.09.005

33. Szegedy, C., Ioffe, S., Vanhoucke, V., & Alemi, A. A. (2017). Inception-v4, InceptionResNet and the Impact of Residual Connections on Learning Christian. In Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI-17) Inception-v4, (pp. 4278–4284). Retrieved from https://www.syncfusion.com/ebooks/support_vector_machines_succinctly

34. Iandola, F. N., Han, S., Moskewicz, M. W., Ashraf, K., Dally, W. J., & Keutzer, K. (2017). SqueezeNet: AlexNet-level accuracy with 50x fewer parameters and <0.5MB model size.

In ICLR (pp. 1–13). https://doi.org/10.1007/978-3-319-24553-9

35. Sandler, M.; Howard, A.; Zhu, M.; Zhmoginov, A.; Chen, L.C. (2018) MobileNetV2: Inverted Residuals and Linear Bottlenecks. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, UT, USA, pp. 4510–4520.

36. F. Chollet. Xception: Deep Learning with Depthwise Separable Convolutions, CVPR 2017, Honolulu. 2017.

37. Ioffe, Sergey, and Christian Szegedy. (2015). Batch normalization: Accelerating deep network training by reducing internal covariate shift. arXiv preprint arXiv:1502.03167.

38. Sembiring, K. 2007. Tutorial Support Vector Machine Bahasa Indonesia. Sekolah Teknik Elektro dan Informatika, Institut Teknologi Bandung.

39. Nugroho, A. S., Witarto, A. B., & Handoko, D. (2003). Support vector machine. Proceeding Indones. Sci. Meeiting Cent. Japan.

40. Zeiler M. D., & Fergus R., Visualizing and understanding convolutional networks, In European conference on computer vision, Springer, Cham, 2014, pp. 818-833.

41. Ker J., Wang L., Rao J., & Lim T., Deep learning applications in medical image analysis, IEEE Access, Vol. 6, 2017, pp. 9375-9389.

42. Arden, D. (2017). Applied Deep Learning - Part 4: Convolutional Neural Networks. Retrieved from https://medium.freecodecamp.org/an-intuitive-guide-to-convolutionalneural-networks-260c2de0a050.

43. Goodfellow, I., Bengio, Y., & Courville, A., 2016, Deep Learning, http://goodfeli.github.io/dlbook/, diakses 17 Februari 2018.

44. Rismiyati. 2016. Implementasi Convolutional Neural Network Untuk Sortasi Mutu Salak Ekspor Berbasis Citra Digital, Tesis, Program Ilmu Komputer, Universitas Gajah Mada, Yogyakarta.

45. Dumoulin, V., dan Visin, F. 2016. A guide to convolution arithmetic for deep learning. ArXiv Preprint ArXiv: 1603.07285.

46. Munir, K., Elahi, H., Ayub, A., Frezza, F., dan Rizzi, A. 2019. Cancer Diagnosis Using Deep Learning: A Blibliographic Review. Cancers, 11(9), 1235.

47. Wang, C., & Xi, Y. 2017. Convolutional Neural Network for Image Classification. Retrieved from http://www.cs.jhu.edu/~cwang107/files/cnn.pdf

48. Rahman, M. A. 2019. Sistem deteksi dini kanker payudara pada citra mammogram menggunakan metode Convolutional Neural Network. UIN Sunan Ampel.

49. Sena, S. (2017). Pengenalan Deep Learning Part 7: Convolutional Neural Network (CNN). Di akses tanggal 9 Juni 2020, dari https://medium.com/@samuelsena/pengenalan-deep-learning-part-7-convolutional-neural-network-cnn-b003b477dc94

50. Nurhikmat, T. (2018). Implementasi Deep Learning untuk Image Classification menggunakan Algoritma Convolutional Neural Network (CNN) pada Citra Wayang Golek.

51. Yang, J. (2017). ReLU and Softmax Activation Functions. Retrieved March 20, 2019, from https://github.com/Kulbear/deep-learning-nano-foundation/wiki/ReLU-and-SoftmaxActivation-Functions

52. Wu, H., & Gu, X. (2015). Towards dropout training for convolutional neural networks. Neural Networks, 71, 1–10. https://doi.org/10.1016/j.neunet.2015.07.007.

53. Rajagede, Rian Adam. 2016. Deep Learning untuk Pengenalan Pelafalan Huruf Hijaiyah Berharakat, Skripsi, Program Ilmu Komputer, Universitas Gajah Mada, Yogyakarta.

54. Ioffe, S., & Szegedy, C. (2015). Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift. https://doi.org/10.1007/s13398-014-0173-7.2.

55. Rachmad, A., Chamidah, N., & Rulaningtyas, R. (2019). Image Enhancement Sputum Containing Mycobacterium Tuberculosis Using A Spatial Domain Filter, by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 546, Issue 5, hal. 1 – 7.

56. Maimana, A. (2020). Penerapan Filter Gaussian Sebagai Metode Penghalusan Dan Algoritma Huffman Dalam Pengompresian Pada Citra. *Pelita Informatika: Informasi dan Informatika*, 5(3).

57. Irviantina, S., & Pardosi, I. (2016). Salt and Pepper Noise Removal dengan Spatial Median Filter dan Adaptive Noise Reduction. *Jurnal SIFO Mikroskil*, 17(2), 127-136.

58. Rachmad, A., Chamidah, N., & Rulaningtyas, R. (2020). Mycobacterium Tuberculosis Identification Based on Color Feature Extraction Using Expert System, Annals of Biology, Vol. 36, No. 1.

59. Rachmad, A., Chamidah, N., & Rulaningtyas, R. (2020). Classification of Mycobacterium

Tuberculosis Based on Colour Feature Extraction Using Adaptive Boosting Method. MS ID: AIPCP20-AR-ICOMCOS2020-00025.(Acepted)

60. Rachmad, A., Chamidah, N., & Rulaningtyas, R. (2020). Mycobacterium tuberculosis images classification based on combining of convolutional neural network and support vector machine. Commun. Math. Biol. Neurosci., Vol 2020, Article-ID 85.