

## DAFTAR PUSTAKA

- Ahmed, S. N. (2015). *Physics and Engineering of Radiation Detection* (Second Edition). Amsterdam: Elsevier.
- Ardakani, A. A., Kanafi, A. R., Acharya, U. R., Khadem, N., & Mohammadi, A. (2020). Application of deep learning technique to manage COVID-19 in routine clinical practice using CT images: Results of 10 convolutional neural networks. *Computers in Biology and Medicine*, 121, 103795. <https://doi.org/10.1016/j.compbimed.2020.103795>
- Arunachalam, S., & Bhavathankar, P. (2021). Deep Learning Approach for Diagnosis of Thoracic Diseases from Chest X-Ray Images. *2021 International Conference on Communication information and Computing Technology (ICCICT)*, 1–6. IEEE. <https://doi.org/10.1109/ICCICT50803.2021.9510133>
- Bhalla, A. S., Goyal, A., Guleria, R., & Gupta, A. K. (2015). Chest tuberculosis: Radiological review and imaging recommendations. *The Indian journal of radiology & imaging*, 25(3), 213–225. <https://doi.org/10.4103/0971-3026.161431>
- Bhandari, M., Shahi, T. B., Siku, B., & Neupane, A. (2022). Explanatory classification of CXR images into COVID-19, Pneumonia and Tuberculosis using deep learning and XAI. *Computers in Biology and Medicine*, 150, 106156. <https://doi.org/10.1016/j.compbimed.2022.106156>
- Bomanji, J. B., Gupta, N., Gulati, P., & Das, C. J. (2015). Imaging in Tuberculosis. *Cold Spring Harbor Perspectives in Medicine*, 5(6), a017814–a017814. <https://doi.org/10.1101/cshperspect.a017814>
- Bre, F., Gimenez, J. M., & Fachinotti, V. D. (2018). Prediction of wind pressure coefficients on building surfaces using artificial neural networks. *Energy and Buildings*, 158, 1429–1441. <https://doi.org/10.1016/j.enbuild.2017.11.045>

- Bushberg, J. T., Seibert, J. A., Leidholdt JR, E. M., & Boone, J. M. (2012). *The Essential Physics of Medical Imaging* (Third Edition; C. W. Mitchell, Ed.). Philadelphia: Lippincott Williams & Wilkins.
- Géron, A. (2019). *Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow* (Second Edition; N. Tache, Ed.). Sebastopol, CA: O'Reilly Media.
- Grus, J. (2015). *Data Science from Scratch* (M. Beaugureau, Ed.). Sebastopol, CA: O'Reilly Media.
- Hart, S. N., Flotte, W., Norgan, A. F., Shah, K. K., Buchan, Z. R., Mounajjed, T., & Flotte, T. J. (2019). Classification of Melanocytic Lesions in Selected and Whole-Slide Images via Convolutional Neural Networks. *Journal of Pathology Informatics*, 10(1), 5. [https://doi.org/10.4103/jpi.jpi\\_32\\_18](https://doi.org/10.4103/jpi.jpi_32_18)
- Hekler, A., Utikal, J. S., Enk, A. H., Hauschild, A., Weichenthal, M., Maron, R. C., ... Thiem, A. (2019). Superior skin cancer classification by the combination of human and artificial intelligence. *European Journal of Cancer*, 120, 114–121. <https://doi.org/10.1016/j.ejca.2019.07.019>
- Huang, Y., Xu, J., Zhou, Y., Tong, T., & Zhuang, X. (2019). Diagnosis of Alzheimer's disease via multi-modality 3D convolutional neural network. *Frontiers in Neuroscience*, 13(MAY). <https://doi.org/10.3389/fnins.2019.00509>
- Jaeger, S., Candemir, S., Antani, S., Wáng, Y.-X. J., Lu, P.-X., & Thoma, G. (2014). Two public chest X-ray datasets for computer-aided screening of pulmonary diseases. *Quantitative imaging in medicine and surgery*, 4(6), 475–477. <https://doi.org/10.3978/j.issn.2223-4292.2014.11.20>
- Jiang, H. (2021). *Machine Learning Fundamentals*. Cambridge University Press. <https://doi.org/10.1017/9781108938051>

- Kim, E. J., Park, J. E., Kim, D. H., & Lee, J. (2012). Plastic Bronchitis in an Adult with Asthma. *Tuberculosis and Respiratory Diseases*, 73(2), 122. <https://doi.org/10.4046/trd.2012.73.2.122>
- Kim, S., Rim, B., Choi, S., Lee, A., Min, S., & Hong, M. (2022). Deep Learning in Multi-Class Lung Diseases' Classification on Chest X-ray Images. *Diagnostics*, 12(4), 915. <https://doi.org/10.3390/diagnostics12040915>
- Ko, S. Y., Chung, M. H., Lim, Y. S., Lim, H. W., Lee, B. Y., Sung, M. S., & Kahng, J. (2013). Characteristics of Consolidation, Centrilobular Nodule and Bronchus as CT Findings for the Differentiation between Tuberculosis and Pneumonia. *Journal of the Korean Society of Radiology*, 68(6), 463. <https://doi.org/10.3348/jksr.2013.68.6.463>
- Krishna, R., & Rudrappa, M. (2022). *Pleural Effusion*.
- Lawrimore, J., Doshi, A., Walker, B., & Bloom, K. (2019). AI-Assisted Forward Modeling of Biological Structures. *Frontiers in Cell and Developmental Biology*, 7. <https://doi.org/10.3389/fcell.2019.00279>
- Lee, K. S., Han, J., Chung, M. P., & Jeong, Y. J. (2014). *Consolidation*. [https://doi.org/10.1007/978-3-642-37096-0\\_22](https://doi.org/10.1007/978-3-642-37096-0_22)
- Lopes, U. K., & Valiati, J. F. (2017). Pre-trained convolutional neural networks as feature extractors for tuberculosis detection. *Computers in Biology and Medicine*, 89, 135–143. <https://doi.org/10.1016/j.compbiomed.2017.08.001>
- Mahbub, M. K., Biswas, M., Gaur, L., Alenezi, F., & Santosh, K. C. (2022). Deep features to detect pulmonary abnormalities in chest X-rays due to infectious diseaseX: Covid-19, pneumonia, and tuberculosis. *Information Sciences*, 592, 389–401. <https://doi.org/10.1016/j.ins.2022.01.062>
- Manco, L., Maffei, N., Strolin, S., Vichi, S., Bottazzi, L., & Strigari, L. (2021). Basic of machine learning and deep learning in imaging for medical physicists. *Physica Medica*, 83, 194–205. <https://doi.org/10.1016/j.ejmp.2021.03.026>

- Maraj, D., Steiner, L., & Persaud, N. (2022). Essential tuberculosis medicines and health outcomes in countries with a national essential medicines list. *Journal of Clinical Tuberculosis and Other Mycobacterial Diseases*, 27, 100305. <https://doi.org/10.1016/j.jctube.2022.100305>
- Mizan, M. B., Hasan, Md. A. M., & Hassan, S. R. (2020). A Comparative Study of Tuberculosis Detection Using Deep Convolutional Neural Network. *2020 2nd International Conference on Advanced Information and Communication Technology (ICAICT)*, 157–161. IEEE. <https://doi.org/10.1109/ICAICT51780.2020.9333464>
- Moolayil, J. (2019). *Learn Keras for Deep Neural Networks*. Berkeley, CA: Apress. <https://doi.org/10.1007/978-1-4842-4240-7>
- Nelli, F. (2018). *Python Data Analytics*. Berkeley, CA: Apress. <https://doi.org/10.1007/978-1-4842-3913-1>
- Rahman, T., Khandakar, A., Kadir, M. A., Islam, K. R., Islam, K. F., Mazhar, R., ... Chowdhury, M. E. H. (2020). Reliable Tuberculosis Detection Using Chest X-Ray With Deep Learning, Segmentation and Visualization. *IEEE Access*, 8, 191586–191601. <https://doi.org/10.1109/ACCESS.2020.3031384>
- Ray, S., Talukdar, A., Kundu, S., Khanra, D., & Sonthalia, N. (2013). Diagnosis and management of miliary tuberculosis: current state and future perspectives. *Therapeutics and clinical risk management*, 9, 9–26. <https://doi.org/10.2147/TCRM.S29179>
- Sevillano, V., & Aznarte, J. L. (2018). Improving classification of pollen grain images of the POLEN23E dataset through three different applications of deep learning convolutional neural networks. *PLOS ONE*, 13(9), e0201807. <https://doi.org/10.1371/journal.pone.0201807>
- Shamrat, F. M. J. M., Azam, S., Karim, A., Islam, R., Tasnim, Z., Ghosh, P., & De Boer, F. (2022). LungNet22: A Fine-Tuned Model for Multiclass

Classification and Prediction of Lung Disease Using X-ray Images. *Journal of Personalized Medicine*, 12(5), 680. <https://doi.org/10.3390/jpm12050680>

Sharma, D. K., Chatterjee, M., Kaur, G., & Vavilala, S. (2022). Deep learning applications for disease diagnosis. Dalam *Deep Learning for Medical Applications with Unique Data* (hlm. 31–51). Elsevier. <https://doi.org/10.1016/B978-0-12-824145-5.00005-8>

Shen, C., Nguyen, D., Zhou, Z., Jiang, S. B., Dong, B., & Jia, X. (2020). An introduction to deep learning in medical physics: advantages, potential, and challenges. *Physics in Medicine & Biology*, 65(5), 05TR01. <https://doi.org/10.1088/1361-6560/ab6f51>

Singhal, A., Phogat, M., Kumar, D., Kumar, A., Dahiya, M., & Shrivastava, V. K. (2022). Study of deep learning techniques for medical image analysis: A review. *Materials Today: Proceedings*, 56, 209–214. <https://doi.org/10.1016/j.matpr.2022.01.071>

Sudeep, K. S., & Pal, K. K. (2017). Preprocessing for image classification by convolutional neural networks. *2016 IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2016 - Proceedings*, 1778–1781. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/RTEICT.2016.7808140>

Takahashi, H., Tampo, H., Arai, Y., Inoue, Y., & Kawashima, H. (2017). Applying artificial intelligence to disease staging: Deep learning for improved staging of diabetic retinopathy. *PLOS ONE*, 12(6), e0179790. <https://doi.org/10.1371/journal.pone.0179790>

Tonnessen, B. H., & Pounds, L. (2011). Radiation physics. *Journal of Vascular Surgery*, Vol. 53, hlm. 6S-8S. Mosby Inc. <https://doi.org/10.1016/j.jvs.2010.05.138>

Tuberculosis. (2022, Oktober 27). Diambil 13 November 2022, dari World Health

Organization website: <https://www.who.int/news-room/fact-sheets/detail/tuberculosis>

Wei, K., Li, T., Huang, F., Chen, J., & He, Z. (2022). Cancer classification with data augmentation based on generative adversarial networks. *Frontiers of Computer Science*, 16(2), 162601. <https://doi.org/10.1007/s11704-020-0025-x>

Wolf, A. (2022). *Machine Learning Simplified*. THEMLSBOOK.COM.

Wulan, T. D., Kurniastuti, I., & Nerisafitra, P. (2021). Lung Cancer Classification in X-Ray Images Using Probabilistic Neural Network. *2021 International Conference on Computer Science, Information Technology, and Electrical Engineering (ICOMITEE)*, 35–39. IEEE. <https://doi.org/10.1109/ICOMITEE53461.2021.9650087>

Yi, P. H., Kim, T. K., & Lin, C. T. (2022). Comparison of radiologist versus natural language processing-based image annotations for deep learning system for tuberculosis screening on chest radiographs. *Clinical Imaging*, 87, 34–37. <https://doi.org/10.1016/j.clinimag.2022.04.009>

Ying, C., Li, X., Lv, S., Du, P., Chen, Y., Fu, H., ... Wu, W. (2022). T-SPOT with CT image analysis based on deep learning for early differential diagnosis of nontuberculous mycobacteria pulmonary disease and pulmonary tuberculosis. *International Journal of Infectious Diseases*, 125, 42–50. <https://doi.org/10.1016/j.ijid.2022.09.031>

Zhai, K., Lu, Y., & Shi, H.-Z. (2016). Tuberculous pleural effusion. *Journal of thoracic disease*, 8(7), E486-94. <https://doi.org/10.21037/jtd.2016.05.87>