

## DAFTAR PUSTAKA

- [1] M. Mujahid, F. Rustam, R. Álvarez, J. Luis Vidal Mazón, I. de la T. Díez, and I. Ashraf, “Pneumonia Classification from X-ray Images with Inception-V3 and Convolutional Neural Network,” *Diagnostics*, vol. 12, no. 5, pp. 1–16, 2022, doi: 10.3390/diagnostics12051280.
- [2] S. Safiri *et al.*, “Burden of chronic obstructive pulmonary disease and its attributable risk factors in 204 countries and territories, 1990-2019: Results from the Global Burden of Disease Study 2019,” *BMJ*, 2022, doi: 10.1136/bmj-2021-069679.
- [3] F. Hussein *et al.*, “Hybrid CLAHE-CNN Deep Neural Networks for Classifying Lung Diseases from X-ray Acquisitions,” *Electronics*, vol. 11, no. 19, p. 3075, 2022, doi: 10.3390/electronics11193075.
- [4] A. M. Ismael and A. Şengür, “Deep learning approaches for COVID-19 detection based on chest X-ray images,” *Expert Syst. Appl.*, vol. 164, no. March 2020, 2021, doi: 10.1016/j.eswa.2020.114054.
- [5] M. Z. Alom, M. M. S. Rahman, M. S. Nasrin, T. M. Taha, and V. K. Asari, “COVID\_MNet: COVID-19 Detection with Multi-Task Deep Learning Approaches,” 2020.
- [6] B. Giri, S. Pandey, R. Shrestha, K. Pokharel, F. S. Ligler, and B. B. Neupane, “Review of analytical performance of COVID-19 detection methods,” *Anal. Bioanal. Chem.*, vol. 413, no. 1, pp. 35–48, 2021, doi: 10.1007/s00216-020-02889-x.
- [7] World Health Organization, “Laboratory testing for coronavirus disease 2019 (COVID-19) in suspected human cases,” vol. 2019, no. March, 2020.
- [8] R. Yi, L. Tang, Y. Tian, J. Liu, and Z. Wu, “Identification and classification of pneumonia disease using a deep learning-based intelligent computational framework,” *Neural Comput. Appl.*, vol. 7, 2021, doi: 10.1007/s00521-021-06102-7.
- [9] S. M. Fati, E. M. Senan, and N. ElHakim, “Deep and Hybrid Learning Technique for Early Detection of Tuberculosis Based on X-ray Images Using Feature Fusion,” *Appl. Sci.*, vol. 12, no. 14, p. 7092, 2022, doi: 10.3390/app12147092.
- [10] E. Ayan and H. M. Ünver, “Diagnosis of pneumonia from chest X-ray images using deep learning,” *2019 Sci. Meet. Electr. Biomed. Eng. Comput. Sci. EBBT 2019*, pp. 2–6, 2019, doi: 10.1109/EBBT.2019.8741582.
- [11] M. Hong, B. Rim, H. C. Lee, H. U. Jang, J. Oh, and S. Choi, “Multi-class classification of lung diseases using cnn models,” *Appl. Sci.*, vol. 11, no. 19, pp. 1–17, 2021, doi: 10.3390/app11199289.

- [12] E. Kesim, Z. Dokur, and T. Olmez, "X-ray chest image classification by a small-sized convolutional neural network," *2019 Sci. Meet. Electr. Biomed. Eng. Comput. Sci. EBBT 2019*, pp. 5–9, 2019, doi: 10.1109/EBBT.2019.8742050.
- [13] M. J. Horry *et al.*, "COVID-19 Detection through Transfer Learning Using Multimodal Imaging Data," *IEEE Access*, vol. 8, pp. 149808–149824, 2020, doi: 10.1109/ACCESS.2020.3016780.
- [14] F. Demir, A. Sengur, and V. Bajaj, "Convolutional neural networks based efficient approach for classification of lung diseases," *Heal. Inf. Sci. Syst.*, vol. 8, no. 1, pp. 1–8, 2020, doi: 10.1007/s13755-019-0091-3.
- [15] N. Y. Lee *et al.*, "A case of COVID-19 and pneumonia returning from Macau in Taiwan: Clinical course and anti-SARS-CoV-2 IgG dynamic," *J. Microbiol. Immunol. Infect.*, vol. 53, no. 3, pp. 485–487, 2020, doi: 10.1016/j.jmii.2020.03.003.
- [16] M. Masud, A. E. Eldin Rashed, and M. S. Hossain, "Convolutional neural network-based models for diagnosis of breast cancer," *Neural Comput. Appl.*, vol. 34, no. 14, pp. 11383–11394, 2022, doi: 10.1007/s00521-020-05394-5.
- [17] D. A. Ragab, M. Sharkas, S. Marshall, and J. Ren, "Breast cancer detection using deep convolutional neural networks and support vector machines," *PeerJ*, vol. 2019, no. 1, pp. 1–23, 2019, doi: 10.7717/peerj.6201.
- [18] S. Kumar, A. Negi, J. N. Singh, and A. Gaurav, "Brain Tumor Segmentation and Classification Using MRI Images via Fully Convolution Neural Networks," *Proc. - IEEE 2018 Int. Conf. Adv. Comput. Commun. Control Networking, ICACCCN 2018*, pp. 1178–1181, 2018, doi: 10.1109/ICACCCN.2018.8748614.
- [19] Y. Xie *et al.*, "Convolutional Neural Network Techniques for Brain Tumor Classification (from 2015 to 2022): Review, Challenges, and Future Perspectives," *Diagnostics*, vol. 12, no. 8, 2022, doi: 10.3390/diagnostics12081850.
- [20] B. Ahmad, M. Usama, C. M. Huang, K. Hwang, M. S. Hossain, and G. Muhammad, "Discriminative Feature Learning for Skin Disease Classification Using Deep Convolutional Neural Network," *IEEE Access*, vol. 8, pp. 39025–39033, 2020, doi: 10.1109/ACCESS.2020.2975198.
- [21] T. H. H. Aldhyani, A. Verma, M. H. Al-Adhaileh, and D. Koundal, "Multi-Class Skin Lesion Classification Using a Lightweight Dynamic Kernel Deep-Learning-Based Convolutional Neural Network," *Diagnostics*, vol. 12, no. 9, 2022, doi: 10.3390/diagnostics12092048.
- [22] H. Sharma, J. S. Jain, P. Bansal, and S. Gupta, "Feature extraction and classification of chest X-ray images using CNN to detect pneumonia,"

- Proc. Conflu. 2020 - 10th Int. Conf. Cloud Comput. Data Sci. Eng.*, pp. 227–231, 2020, doi: 10.1109/Confluence47617.2020.9057809.
- [23] A. Waheed, M. Goyal, D. Gupta, A. Khanna, F. Al-Turjman, and P. R. Pinheiro, “CovidGAN: Data Augmentation Using Auxiliary Classifier GAN for Improved Covid-19 Detection,” *IEEE Access*, vol. 8, pp. 91916–91923, 2020, doi: 10.1109/ACCESS.2020.2994762.
- [24] A. Irfan, A. L. Adivishnu, A. Sze-To, T. Dehkharghanian, S. Rahnamayan, and H. R. Tizhoosh, “Classifying Pneumonia among Chest X-Rays Using Transfer Learning,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, vol. 2020-July, pp. 2186–2189, 2020, doi: 10.1109/EMBC44109.2020.9175594.
- [25] M. Turkoglu, “COVIDetectioNet: COVID-19 diagnosis system based on X-ray images using features selected from pre-learned deep features ensemble,” *Appl. Intell.*, vol. 51, no. 3, pp. 1213–1226, 2021, doi: 10.1007/s10489-020-01888-w.
- [26] J. F. Tomashefski, *Dail and Hammar’s Pulmonary Pathology*. 2008.
- [27] R. Krause and J. Smolle, “Covid-19 mortality and local burden of infectious diseases: A worldwide country-by-country analysis,” *J. Infect. Public Health*, vol. 15, no. 12, pp. 1370–1375, 2022, doi: 10.1016/j.jiph.2022.10.018.
- [28] I. D. Athena Anwar, “Pneumonia among Children Under Five Years of Age in Indonesia,” *Urology*, vol. 56, no. 6, pp. 956–961, 2014, doi: 10.1016/S0090-4295(00)00847-5.
- [29] J. Hou and T. Gao, “Explainable DCNN based chest X-ray image analysis and classification for COVID-19 pneumonia detection,” *Sci. Rep.*, vol. 11, no. 1, pp. 1–15, 2021, doi: 10.1038/s41598-021-95680-6.
- [30] S. Khan *et al.*, “Emergence of a Novel Coronavirus, Severe Acute Respiratory Syndrome Coronavirus 2: Biology and Therapeutic Options,” *J. Clin. Microbiol.*, vol. 58, no. 8, pp. 1–9, 2020, doi: 10.1128/JCM.01297-20.
- [31] M. Salehi, A. Ghasemian, S. K. Shokouhi Mostafavi, S. Najafi, and H. Rajabi Vardanjani, “Sero-prevalence of,” *Iran J Pathol*, vol. 12, no. 2, pp. 183–188, 2017.
- [32] T. Phan, “Genetic diversity and evolution of SARS-CoV-2,” *Infect. Genet. Evol.*, vol. 81, no. February, p. 104260, 2020, doi: 10.1016/j.meegid.2020.104260.
- [33] S. Candemir and S. Antani, “A review on lung boundary detection in chest X-rays,” *Int. J. Comput. Assist. Radiol. Surg.*, vol. 14, no. 4, pp. 563–576, 2019, doi: 10.1007/s11548-019-01917-1.

- [34] M. C. Rouan *et al.*, “Pharmacokinetics and pharmacodynamics of TMC207 and its N-desmethyl metabolite in a murine model of tuberculosis,” *Antimicrob. Agents Chemother.*, vol. 56, no. 3, pp. 1444–1451, 2012, doi: 10.1128/AAC.00720-11.
- [35] K. O’Shea and R. Nash, “An Introduction to Convolutional Neural Networks,” pp. 1–11, 2015.
- [36] J. Koushik, “Understanding Convolutional Neural Networks,” no. 3, pp. 1–6, 2016.
- [37] E. N. Arrofiqoh and H. Harintaka, “Implementasi Metode Convolutional Neural Network Untuk Klasifikasi Tanaman Pada Citra Resolusi Tinggi,” *Geomatika*, vol. 24, no. 2, p. 61, 2018, doi: 10.24895/jig.2018.24-2.810.
- [38] A. Khan, A. Sohail, U. Zahoora, and A. S. Qureshi, “A survey of the recent architectures of deep convolutional neural networks,” *Artif. Intell. Rev.*, pp. 1–67, 2020, doi: 10.1007/s10462-020-09825-6.
- [39] C. Szegedy, V. Vanhoucke, S. Ioffe, J. Shlens, and Z. Wojna, “Rethinking the Inception Architecture for Computer Vision,” *Proc. IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit.*, vol. 2016-Decem, pp. 2818–2826, 2016, doi: 10.1109/CVPR.2016.308.
- [40] A. Hidayat, U. Darusalam, and I. Irmawati, “Detection of Disease on Corn Plants Using Convolutional Neural Network Methods,” *J. Ilmu Komput. dan Inf.*, vol. 12, no. 1, p. 51, 2019, doi: 10.21609/jiki.v12i1.695.
- [41] A. N. Link and J. T. Scott, “Performance Evaluation Metrics,” *Public Account.*, no. 1995, pp. 17–21, 1998, doi: 10.1007/978-1-4615-5639-8\_4.
- [42] T. A. Prasetya, C. T. Harjanto, and A. Setiyawan, “Analysis of student satisfaction of e-learning using the end-user computing satisfaction method during the Covid-19 pandemic,” *J. Phys. Conf. Ser.*, vol. 1700, no. 1, 2020, doi: 10.1088/1742-6596/1700/1/012012.
- [43] V. H. Masías, M. Valle, C. Morselli, F. Crespo, A. Vargas, and S. Laengle, “Modeling verdict outcomes using social network measures: The watergate and caviar network cases,” *PLoS One*, vol. 11, no. 1, pp. 1–24, 2016, doi: 10.1371/journal.pone.0147248.
- [44] F. Krüger, “Activity, Context, and Plan Recognition with Computational Causal Behaviour Models,” *ResearchGate*, no. August, 2018.
- [45] G. E. H. Alex Krizhevsky, Ilya Sutskever, “ImageNet Classification with Deep Convolutional Neural Networks Alex,” *Handb. Approx. Algorithms Metaheuristics*, pp. 1–1432, 2007, doi: 10.1201/9781420010749.

