

## DAFTAR PUSTAKA

- [1] M. A. Hariadi, L. S. Angreani dan A. S. Fatkhurrahman, “APLIKASI SEGMENTASI PARU-PARU,” *Jurnal Ilmu Komputer dan Teknologi Informasi*, vol. 7, no. 1, pp. 5-8, 16 November 2015.
- [2] E. Kusumawardhani, *Mengenal Perbedaan Pneumonia COVID-19 dengan Pneumonia Oleh Sebab Lain*, Banjarmasin: Rumah Sakit Umum Daerah Ulin Banjarmasin, 2020, pp. 14-15.
- [3] P. Rajpurkar, J. Irvin, K. Zhu dan e. a. , “CheXNet: Radiologist-Level Pneumonia Detection on Chest X-Rays with Deep Learning,” *Computer Vision and Pattern Recognition*, pp. 1-7, 2 Agustus 2017.
- [4] Z. Nabila, A. R. Isnain, P. dan Z. Abidin, “ANALISIS DATA MINING UNTUK CLUSTERING KASUS COVID-19,” *Jurnal Teknologi dan Sistem Informasi (JTISI)*, vol. 2, no. 2, pp. 100-108, 21 September 2021.
- [5] Y. Li, Z. Zhang dan et al., “Accuracy of deep learning for automated detection of pneumonia using chest X-Ray images: A systematic review and meta-analysis,” *Computers in Biology and Medicine*, vol. 123, pp. 1-8, 2020.
- [6] M. Nishio, S. Noguchi dan et al., “Automatic classification between COVID-19 pneumonia, non-COVID-19 pneumonia, and the healthy on chest X-ray image: combination of data augmentation methods,” *Scientific Reports*, vol. 10, pp. 1-6, 2020.
- [7] E. Ayan dan H. M. Ünver, “Diagnosis of Pneumonia from Chest X-Ray Images Using Deep Learning,” *2019 Scientific Meeting on Electrical-Electronics & Biomedical Engineering and Computer Science (EBBT)*, pp. 1-5, 2019.
- [8] A. Keles, M. B. Keles dan A. Keles, “COV19-CNNNet and COV19-ResNet: Diagnostic Inference Engines for Early Detection of COVID-19,” *Cognitive Computation*, pp. 1-11, 2020.
- [9] R. Chaudhry dan B. Bordoni, *Anatomy, Thorax, Lungs*, Treasure Island (FL): StatPearls Publishing, 2017.
- [10] S. P. Jadhav, H. Singh, S. Hussain dan e. a. , “Introduction to Lung Diseases,” *Targeting Cellular Signalling Pathways in Lung Diseases*, pp. 1-25, 2021.
- [11] A. N. Sajed dan K. Amgain, “Corona Virus Disease (COVID-19) Outbreak and the Strategy for Prevention,” *Europasian Journal of Medical Sciences*, vol. 2, no. 1, pp. 1-3, 12 Oktober 2020.
- [12] T. Singhal, “A Review of Coronavirus Disease-2019 (COVID-19),” *Nature Public Health Emergency Collection*, vol. 87, no. 4, pp. 281-286, 2020.

- [13] J. P. Kanne, H. Bai, A. Bernheim dan e. a. , “COVID-19 Imaging: What We Know Now and What Remains Unknown,” *Radiology*, vol. 299, no. 3, pp. 262-279, 2021.
- [14] B. Jones, N. Dean, R. Wunderink dan M. Sockrider, “What is Pneumonia?,” *American Journal of Respiratory and Critical Care Medicine*, vol. 193, no. 1, pp. 1-2, 2 Agustus 2016.
- [15] I. M. D. Maysanjaya, “Klasifikasi Pneumonia pada Citra X-rays Paru-paru dengan Convolutional Neural Network,” *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, vol. 9, no. 2, pp. 190-195, 10 September 2021.
- [16] V. Tyagi, *Understanding Digital Image Processing*, Boca Raton: CRC Press Taylor & Francis Group, 2018.
- [17] Y. M. Y. Abdallah dan T. Alqahtani, “Research in Medical Imaging Using Image Processing Techniques,” dalam *Medical Imaging - Principles and Applications*, London, IntechOpen, 2019, pp. 1-16.
- [18] M. T. Islam, M. A. Aowal, A. T. Minhaz dan K. Ashraf, “Abnormality Detection and Localization in Chest X-Rays using Deep Convolutional Neural Networks,” *Computer Vision and Pattern Recognition*, pp. 1-16, 2017.
- [19] J. Corne dan M. Kumaran, *Chest X-ray Made Easy Fourth Edition*, Nottingham: Elsevier, 2016.
- [20] A. Esteva, A. Robicquet, B. Ramsundar dan e. a. , “A guide to deep learning in healthcare,” *Nature Medicine*, vol. 25, pp. 24-29, 5 Februari 2019.
- [21] M. Z. Alom, T. M. Taha, C. Yakopcic dan et al., “A State-of-the-Art Survey on Deep Learning Theory and Architectures,” *Journal Electronics*, vol. 8, no. 3, pp. 1-67, 2019.
- [22] I. Goodfellow, Y. Bengio dan A. Courville, “Machine Learning Basics,” *Deep Learning*, pp. 98-148, 2016.
- [23] K. P. Murphy, “Machine Learning A Probabilistic Perspective,” *The MIT Press*, pp. 1-1050, 1991.
- [24] S. Indolia, A. K. Goswami, M. dan P. Asopa, “Conceptual Understanding of Convolutional Neural Network- A Deep Learning Approach,” *International Conference on Computational Intelligence and Data Science (ICCIDS 2018)*, vol. 132, pp. 679-688, 2018.
- [25] A. Ghosh, A. Sufian dan et al., “Fundamental Concepts of Convolutional Neural Network,” *Recent Trends and Advances in Artificial Intelligence and Internet of Things*, vol. 172, pp. 519-567, 30 Agustus 2020.
- [26] P. Kamencay, M. Benco, T. Mizdos dan R. Radil, “A New Method for Face Recognition Using Convolutional Neural Network,” *ADVANCES IN ELECTRICAL AND ELECTRONIC ENGINEERING*, vol. 15, no. 4, pp. 663-672, 2017.

- [27] C. . B. S. Maior, J. M. M. Santana, I. D. Lins dan M. J. C. Moura, “Convolutional neural network model based on radiological images to support COVID-19 diagnosis: Evaluating database biases,” *PLoS ONE*, vol. 16, no. 3, pp. 1-25, 2021.
- [28] C. Nwankpa, W. Ijomah dan et al., “Activation Functions: Comparison of Trends in Practice and Research for Deep Learning,” *Machine Learning*, pp. 1-20, 2018.
- [29] J. Liang, “Image classification based on RESNET,” *Journal of Physics: Conference Series*, pp. 1-6, 2020.
- [30] Q. Ji, J. Huang, W. He dan Y. Sun, “Optimized Deep Convolutional Neural Networks for Identification of Macular Diseases from Optical Coherence Tomography Images,” *Algorithms*, vol. 12, no. 3, pp. 1-12, 2019.
- [31] S. R. Nayak, D. R. Nayak, U. Sinha dan et al., “Application of deep learning techniques for detection of COVID-19 cases using chest X-ray images: A comprehensive study,” *Biomedical Signal Processing and Control*, vol. 64, pp. 1-12, 2021.
- [32] O. A. Ramwala, H. Mulchandani, P. Dalal dan et al., “COVID-19 Diagnosis from Chest Radiography Images using Deep Residual Network,” *2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, pp. 1-5, 2020.
- [33] Y.-H. Kim, J.-B. Park, M.-S. Chang dan et. al., “Influence of the Depth of the Convolutional Neural Networks on an Artificial Intelligence Model for Diagnosis of Orthognathic Surgery,” *Journal of Personalized Medicine*, vol. 11, no. 5, pp. 1-11, 2021.
- [34] J. Zhao, W. Wang dan C. Sheng, “Data Preprocessing Techniques,” *Data-Driven Prediction for Industrial Processes and Their Applications*, pp. 13-52, 2018.
- [35] J. Enterprise, *Aplikasi Face Detector dan Digital Imaging dengan Python*, Jakarta: Elex Media Komputindo, 2018.
- [36] K. Koonsanit, S. Thongvigitmanee dan et al., “Image enhancement on digital x-ray images using N-CLAHE,” *2017 10th Biomedical Engineering International Conference (BMEiCON)*, pp. 1-4, 2017.
- [37] N. D. Miranda, L. Novamizanti dan S. Rizal, “CONVOLUTIONAL NEURAL NETWORK PADA KLASIFIKASI SIDIK JARI MENGGUNAKAN RESNET-50,” *Jurnal Teknik Informatika (JUTIF)*, vol. 1, no. 2, pp. 61-68, 2020.
- [38] S. Ruder, “An overview of gradient descent optimization,” *Machine Learning*, no. 2, pp. 1-14, 2017.

- [39] Y. S. Hariyani, S. Hadiyoso dan T. S. Siadari, “Deteksi Penyakit Covid-19 Berdasarkan Citra X-Ray Menggunakan Deep Residual Network,” *Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, vol. 8, no. 2, pp. 443-453, 2020.
- [40] D. S. Kermany, M. Goldbaum dan e. a. , “Identifying Medical Diagnoses and Treatable Diseases by Image-Based Deep Learning,” *Cell*, vol. 172, no. 5, pp. 1122-1131, 2018.
- [41] L. Wang, Z. Q. Lin dan A. Wong, “COVID-Net: a tailored deep convolutional neural network design for detection of COVID-19 cases from chest X-ray images,” *Scientific Reports*, vol. 10, no. 1, p. 19549, 2020.
- [42] M. Islam, M. M. Islam dan A. Ashraf, “A combined deep CNN-LSTM network for the detection of novel coronavirus (COVID-19) using X-ray images,” *Informatics in Medicine Unlocked*, vol. 20, pp. 1-12, 2020.