

DAFTAR PUSTAKA

- [1] Healthline Media, "Everything You Should Know About the 2019 Coronavirus and COVID-19," [Online]. Available: <https://www.healthline.com/health/coronavirus-covid-19>. [Accessed 17 September 2020].
- [2] S. Sanche, Y. Ting Lin, C. Xu, E. Romero-Severson, N. Hengartner and R. Ke, "High Contagiousness and Rapid Spread of Severe Acute Respiratory Syndrome Coronavirus 2," *Emerging Infectious Diseases*, vol. 26, no. 7, pp. 1470-1477, 2020.
- [3] Satuan Tugas Penanganan COVID-19, "Peta Sebaran," [Online]. Available: <https://covid19.go.id/peta-sebaran>. [Accessed 19 September 2020].
- [4] worldometers, "COVID-19 Coronavirus Pandemic," 2020. [Online]. Available: <https://www.worldometers.info/coronavirus/>. [Accessed 9 September 2020].
- [5] C. Bao, X. Liu, H. Zhang, Y. Li and J. Liu, "Coronavirus Disease 2019 (COVID-19) CT Findings: A Systematic Review and Meta-analysis," *Journal of the American College of Radiology*, vol. 17, no. 6, p. 701–709, 2020.
- [6] E. D. Tenda, M. Yulianti, M. M. Asaf, R. E. Yunus, W. Septiyanti, V. Wulani, C. W. Pitoyo, C. M. Rumende and S. Setiati, "The Importance of Chest CT Scan in COVID-19: A Case Series," *Acta Med Indones*, vol. 52, no. 1, pp. 68-73, 2020.
- [7] N. Cui, X. Zou and L. Xu, "Preliminary CT findings of coronavirus disease 2019 (COVID-19)," *Cardiothoracic Imaging*, vol. 65, pp. 124-132, 2020.
- [8] Z. N. e. a. W. Guan, "Clinical Characteristics of Coronavirus Disease 2019 in China," *The New England Journal of Medicine*, vol. 382, no. 18, pp. 1708-1720, 2020.
- [9] T. Ai, Z. Yang, H. Hou, C. Zhan, C. Chen, W. Lv, Q. Tao, Z. Sun and L. Xia, "Correlation of Chest CT and RT-PCR Testing in Coronavirus Disease 2019 (COVID-19) in China: A Report of 1014 Cases," *Radiology*, vol. 296, no. 1, pp. 32-40, 2020.
- [10] T. Li, W. Wei, L. Cheng, S. Zhao, C. Xu, X. Zhang, Y. Zeng and J. Gu, "Computer-Aided Diagnosis of COVID-19 CT Scans Based on Spatiotemporal Information Fusion," *Journal of Healthcare Engineering*, vol. 2021, 2021.



- [11] C. Gaia, C. Maria Chiara and L. Silvia et al, "Chest CT for early detection and management of coronavirus disease (COVID-19): a report of 314 patients admitted to Emergency Department with suspected pneumonia," *Radio Med*, vol. 125, no. 10, pp. 931-942, 2020.
- [12] Y. LeCun, P. Haffner, L. Bottou and Y. Bengio, "Object Recognition with Gradient-Based Learning," in *Shape, contour and grouping in computer vision*, Springer, Berlin, Heidelberg, 1999, pp. 319-345.
- [13] K. He, X. Zhang, S. Ren and J. Sun, "Deep Residual Learning for Image Recognition," in *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, NV, 2016.
- [14] A. A. Ardakani, A. R. Kanafi, U. R. Acharya, N. Khadem and A. Mohammadi, "Application of deep learning technique to manage COVID-19 in routine clinical practice using CT images: Result of 10 convolutional neural networks," *Computer in Biology and Medicine*, vol. 121, 2020.
- [15] S. Hu et al, "Weakly Supervised Deep Learning for COVID-19 Infection Detection and Classification From CT Images," *IEEE Access*, vol. 8, pp. 118869-118883, 2020.
- [16] M. Lotfi, M. R. Hamblin and N. Rezaei, "COVID-19: Transmission, prevention, and potential therapeutic," *Clinica Chimica Acta*, vol. 508, pp. 254-256, 2020.
- [17] N. Petrosillo, G. Viceconte, O. Ergonul, G. Ippolito and E. Petersen, "COVID-19, SARS and MERS: are they closely related?," *Clinical Microbiology and Infection*, 2020.
- [18] World Health Organization, "WHO Director-General's opening remarks at the media briefing on COVID-19 - 11 March 2020," 11 Maret 2020. [Online]. Available: <https://www.who.int/director-general/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>. [Accessed 21 November 2020].
- [19] R. M. C. A. e. a. Cascella M, "Features, Evaluation, and Treatment of Coronavirus," 4 Oktober 2020. [Online]. Available: <https://www.ncbi.nlm.nih.gov/books/NBK554776/>. [Accessed 21 November 2020].
- [20] Y.-C. Wu, C.-S. Chen and Y.-J. Chan, "The outbreak of COVID-19: An overview," *Journal of the Chinese Medical Association: JCMA*, vol. 83, no. 3, pp. 217-220, 2020.



- [21] N. Wilson, S. Corbett and E. Tovey, "Airborne transmission of covid-19," *BMJ*, vol. 370, 2020.
- [22] L. Setti, F. Passarini, G. De Gennaro, P. Barbieri, M. Perrone, M. Borelli, J. Palmisani, A. Di Gilio, P. Piscitelli and A. Miani, "Airborne Transmission Route of COVID-19: Why 2 Meters/6 Feet of Inter-Personal Distance Could Not Be Enough," *International Journal of Environmental Research and Public Health*, vol. 17, no. 2932, 2020.
- [23] H. Zhao, X. Lu, Y. Deng, Y. Tang and J. Lu, "COVID-19: asymptomatic carrier transmission is an underestimated problem," *Epidemiology and Infection*, 2020.
- [24] J. He, Y. Guo, R. Mao and J. Zhang, "Proportion of asymptomatic coronavirus disease 2019: A systematic review and meta-analysis," *Journal of Medical Virology*, pp. 1-11, 2020.
- [25] S. A. Lauer, K. H. Grantz, Q. Bi, F. K. Jones, Q. Zheng, H. R. Meredith, A. S. Azman, N. G. Reich and J. Lessler, "The Incubation Period of Coronavirus Disease 2019 (COVID-19) From Publicly Reported Confirmed Cases: Estimation and Application," *Annals of Internal Medicine*, vol. 172, no. 9, pp. 577-582, 2020.
- [26] World Health Organization, "Media Statement: Knowing the risks for COVID-19," 8 Maret 2020. [Online]. Available: <https://www.who.int/indonesia/news/detail/08-03-2020-knowing-the-risk-for-covid-19>. [Accessed 17 September 2020].
- [27] A. Sanyaolu, C. Okorie, A. Marinkovic, R. Patidar, K. Younis, P. Desai, Z. Hosein, I. Padda, J. Mangat and M. Altaf, "Comorbidity and its Impact on Patients with COVID-19," *SN Comprehensive Clinical Medicine*, 2020.
- [28] Centers for Disease Control and Prevention, "Coronavirus Disease 2019 (COVID-19), Older Adults," [Online]. Available: <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/older-adults>. [Accessed 17 September 2020].
- [29] X. Xie, Z. Zhong, W. Zhao, C. Zeng, F. Wang and J. Liu, "Chest CT for Typical Coronavirus Disease 2019 (COVID-19) Pneumonia: Relationship to Negative RT-PCR Testing," *Radiology*, vol. 296, no. 2, pp. 41-45, 2020.



- [30] M. C. C. S. L. e. a. Gaia C, "Chest CT for early detection and management of coronavirus disease (COVID-19): a report of 314 patients admitted to Emergency Department with suspected pneumonia," *Radio Med*, vol. 125, no. 10, pp. 931-942, 2020.
- [31] Badan Pengembangan dan Pembinaan Bahasa, Kementerian Pendidikan dan Kebudayaan Republik Indonesia, "KBBI Daring," [Online]. Available: <https://kbbi.kemdikbud.go.id/entri/klasifikasi>. [Accessed 22 November 2020].
- [32] C. Ma, S. Xu, X. Yi, L. Li and C. Yu, "Research on Image Classification Method Based on DCNN," in *2020 International Conference on Computer Engineering and Application (ICCEA)*, Guangzhou, China, 2020.
- [33] ThinkAutomation, "ELI5: what is image classification in deep learning?," [Online]. Available: <https://www.thinkautomation.com/eli5/eli5-what-is-image-classification-in-deep-learning/>. [Accessed 22 November 2020].
- [34] A. Geron, *Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow*, O'Reilly Media, 2019.
- [35] F. J. Valverde-Albacete and C. Peláez-Moreno, "100% Classification Accuracy Considered Harmful: The Normalized Information Transfer Factor Explains the Accuracy Paradox," *PLOS ONE*, vol. 9, no. 1, 2014.
- [36] S. Simske, "Meta-analytic design patterns," in *Meta-Analytics: Consensus Approaches and System Patterns for Data Analysis*, 2019, pp. 147-185.
- [37] D. M. W. Powers, "Evaluation: from precision, recall and F-measure to ROC, informedness, markedness and correlation," *International Journal of Machine Learning Technology*, vol. 2, no. 1, pp. 37-63, 2011.
- [38] T. Saito and M. Rehmsmeier, "The Precision-Recall Plot Is More Informative than the ROC Plot When Evaluating Binary Classifiers on Imbalanced Datasets," *PLOS ONE*, vol. 10, no. 3, 2015.
- [39] T. Fawcett, "An introduction to ROC analysis," *Pattern Recognition Letters*, vol. 27, pp. 861-874, 2001.



- [40] P. Whiting, N. Singatullina and J. Rosser, "Computed tomography of the chest: I. Basic principles," *BJA Education*, vol. 15, no. 6, pp. 299-304, 2015.
- [41] B. Sul, L. Flors, J. Cassani, M. J. Morris, J. Reifman, T. Altes and A. Wallqvist, "Volumetric characteristics of idiopathic pulmonary fibrosis lungs: computational analyses of high-resolution computed tomography images of lung lobes," *Respir Res*, vol. 20, no. 216, 2019.
- [42] N. W, L. S, Y. J and e. al, "iCTCF: an integrative resource of chest computed tomography images and clinical features of patients with COVID-19 pneumonia," *Research Square*, p. 37, 2020.
- [43] E. A. P. B. S. F. M. H. & A. D. K. Soares, "SARS-CoV-2 CT-scan dataset: A large dataset of real patients CT scans for SARS-CoV-2 identification," *medRxiv*, 2020.
- [44] J. Zhao, Y. Zhang, X. He and P. Xie, "COVID-CT-Dataset: a CT scan dataset about COVID-19," *arXiv*, 2020.
- [45] M. Rahimzadeh, A. Attar and S. M. Sakhaei, "A fully automated deep learning-based network for detecting COVID-19 from a new and large lung CT scan dataset," *Biomedical Signal Processing and Control*, 2021.
- [46] L. Alzubaidi, J. Zhang, A. Humaidi and a. et, "Review of deep learning: concepts, CNN architectures, challenges, applications, future directions," *J Big Data*, vol. 8, no. 53, 2021.
- [47] A. V. S. S. I. ´ P. M. T. Jasmina Dj. Novakovic, "Evaluation of Classification Models in Machine Learning," *Theory and Applications of Mathematics & Computer Science*, vol. 7, no. 1, pp. 39-46, 2017.
- [48] World Health Organization, "Naming the coronavirus disease (COVID-19) and the virus that causes it," [Online]. Available:][https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-\(covid-2019\)-and-the-virus-that-causes-it](https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/naming-the-coronavirus-disease-(covid-2019)-and-the-virus-that-causes-it). [Accessed 17 September 2020].
- [49] World Health Organization, "WHO Director-General's opening remarks at the media briefing on COVID-19 - 11 March 2020," 11 Maret 2020. [Online]. Available: <https://www.who.int/dg/speeches/detail/who-director-general-s-opening-remarks-at-the-media-briefing-on-covid-19---11-march-2020>. [Accessed 17 September 2020].



- [50] N. Petrosillo, G. Viceconte, O. Ergonul, G. Ippolito and E. Petersen, "COVID-19, SARS and MERS: are they closely related?," *Clinical Microbiology and Infection*, 2020.
- [51] Centers for Disease Control and Prevention, "Coronavirus Disease 2019 (COVID-19), Older Adults," [Online]. Available: <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/older-adults.html#:~:text=Risk%20for%20Severe%20Illness%20Increases%20with%20Age&text=Similarly%2C%20people%20in%20their%2060s,those%20aged%2085%20or%20older..> [Accessed 17 September 2020].
- [52] S. H. e. al, "Weakly Supervised Deep Learning for COVID-19 Infection Detection and Classification From CT Images," *IEEE Access*, 2020.
- [53] M. J. Horry et al., "COVID-19 Detection Through Transfer Learning Using Multimodal Imaging Data," *IEEE Access*, vol. 8, pp. 149808-149824, 2020.
- [54] F. Chollet, "Xception: Deep Learning With Depthwise Separable Convolutions," in *IEEE Conference on Computer Vision and Pattern (CVPR)*, 2017.
- [55] *Case courtesy of Dr Andrew Dixon*.
- [56] I. Goodfellow, Y. Bengio and A. Courville, *Deep Learning*, MIT Press, 2016.
- [57] K. Balaji and K. Lavanya, "Medical Image Analysis With Deep Neural Networks," *Deep Learning and Parallel Computing Environment for Bioengineering Systems*, pp. 75 - 97, 2019.
- [58] M. Z. Alom, T. M. Taha, C. Yakopcic, S. Westberg, P. Sidike, M. S. Nasrin, B. C. V. Esesn, A. A. S. Awwal and V. K. Asari, "The History Began from AlexNet: A Comprehensive Survey on Deep Learning Approaches," *arXiv*, 2018.
- [59] Suyanto, K. N. Ramadhani and S. Mandala, *Deep Learning: Modernisasi Machine Learning untuk Big Data*, Bandung: Penerbit Informatika, 2019.
- [60] Stanford Edu, "CS231n Convolutional Neural Networks for Visual Recognition: Convolutional Neural Networks (CNNs / ConvNets)," Stanford Edu, 2020. [Online]. Available: <https://cs231n.github.io/convolutional-networks/>. [Accessed 27 11 2020].



- [61] Y. LeCun, P. Haffner, L. Bottou and Y. Bengio, "Object Recognition with Gradient-Based Learning".
- [62] PyPA, "pip," 2021. [Online]. Available: <https://pip.pypa.io/en/stable/>. [Accessed 28 June 2021].