DAFTAR PUSTAKA

[1] U. A. Khan, M. Asif, M. H. Zafar, and L. Alhems, "Experimental validation of machine learning for contamination classification of polluted high voltage insulators using leakage current," *Scientific Reports*, vol. 15, no. 1, Apr. 2025.

[2] H. Y. He, Z. Zhang, W.-J. Lee, Y. Cao, D. Luo, and T. Lu, "A contactless insulator contamination levels detecting method based on infrared images features and rbfnn," in *2018 IEEE Industry Applications Society Annual Meeting (IAS)*. IEEE, Sep. 2018, pp. 1–9.

[3] L. Tan and J. Jiang, *Image Processing Basics*. Elsevier, 2019, pp. 649–726.

[4] J. Shen, B. Li, and X. Shi, "Real-time detection of human drowsiness via a portable brain-computer interface," *Open Journal of Applied Sciences*, vol. 07, no. 03, pp. 98–113, 2017.

[5] J. Schmidhuber, "Deep learning in neural networks: An overview," *Neural Networks*, vol. 61, pp. 85–117, Jan. 2015.

[6] L. Alzubaidi, J. Zhang, A. J. Humaidi, A. Al-Dujaili, Y. Duan, O. Al-Shamma, J. Santamaría, M. A. Fadhel, M. Al-Amidie, and L. Farhan, "Review of deep learning: concepts, cnn architectures, challenges, applications, future directions," *Journal of Big Data*, vol. 8, no. 1, Mar. 2021.

[7] K. O'Shea and R. Nash, "An introduction to convolutional neural networks," 2015.

[8] R. Yamashita, M. Nishio, R. K. G. Do, and K. Togashi, "Convolutional neural networks: an overview and application in radiology," *Insights into Imaging*, vol. 9, no. 4, pp. 611–629, Jun. 2018.

[9] M. Lin, Q. Chen, and S. Yan, "Network in network," 2013.

[10] P. Singh, N. Singh, K. K. Singh, and A. Singh, *Diagnosing of disease using machine learning*. Elsevier, 2021, pp. 89–111.

[11] J. S. T. Looms, *Insulators for High Voltages*. Institution of Engineering and Technology, Jan. 1988.

[12] L. Maraaba, K. Al-Soufi, T. Ssennoga, A. Memon, M. Worku, and L. Alhems, "Contamination level monitoring techniques for high-voltage insulators: A review," *Energies*, vol. 15, no. 20, p. 7656, Oct. 2022.

[13] N. Valdi Rizki Yandri, "Fenomena flashover akibat arus bocorpada isolator keramik dan resin epoksi," *Jurnal Teknik Elektro ITP*, 2012.

[14] S. Venkataraman and R. Gorur, "Prediction of flashover voltage of non-ceramic insulators under contaminated conditions," *IEEE Transactions on Dielectrics and Electrical Insulation*, vol. 13, no. 4, pp. 862–869, Aug. 2006.

[15] A. Krzma, M. E. Amine Slama, M. Albano, and A. Haddad, "Effect of esdd/n-sdd on ac flashover characteristics of conventional and textured sir outdoor insulators," in *2024 59th International Universities Power Engineering Conference (UPEC)*. IEEE, Sep. 2024, pp. 1–4.

[16] O. Astorga and A. Do Prado, "The flashover phenomenon: an analysis with influence of the thickness of the layer pollution of the high voltage polluted insulators," in *Proceedings of 1994 IEEE International Symposium on Electrical Insulation*. IEEE, 1994, pp. 546–549.

[17] M. Habyarimana and A. A. Adebiyi, "A review of artificial intelligence applications in predicting faults in electrical machines," *Energies*, vol. 18, no. 7, p. 1616, Mar. 2025.

[18] M. T. K. Niazi, Arshad, J. Ahmad, F. Alqahtani, F. A. Baotham, and F. Abu-Amara, "Prediction of critical flashover voltage of high voltage insulators leveraging bootstrap neural network," *Electronics*, vol. 9, no. 10, p. 1620, Oct. 2020.

[19] S. A. Alawi, M. A. Salam, A. A. Maqrashi, and H. Ahmad, "Prediction of flashover voltage of contaminated insulator using artificial neural networks," *Electric Power Components and Systems*, vol. 34, no. 8, pp. 831–840, Aug. 2006.

[20] C. Liu, Y. Wu, J. Liu, and Z. Sun, "Improved yolov3 network for insulator detection in aerial images with diverse background interference," *Electronics*, vol. 10, no. 7, p. 771, Mar. 2021.

[21] F. Chollet, "Xception: Deep learning with depthwise separable convolutions," 2016.

[22] M. Tan and Q. V. Le, "Efficientnet: Rethinking model scaling for convolutional neural networks," 2019.

[23] G. Huang, Z. Liu, L. van der Maaten, and K. Q. Weinberger, "Densely connected convolutional networks," 2016.

[24] C. Szegedy, S. Ioffe, V. Vanhoucke, and A. Alemi, "Inception-v4, inception-resnet and the impact of residual connections on learning," 2016.

[25] B. Zoph, V. Vasudevan, J. Shlens, and Q. V. Le, "Learning transferable architectures for scalable image recognition," 2017.

[26] A. C. Baker, M. Farzaneh, R. S. Gorur, S. M. Gubanski, R. J. Hill, G. G. Karady, and H. M. Schneider, "Insulator selection for ac overhead lines with respect to contamination," *IEEE Transactions on Power Delivery*, vol. 24, no. 3, pp. 1633–1641, Jul. 2009.

[27] M. T. Shahriar and H. Li, "A study of image pre-processing for faster object recognition," 2020.

[28] H. Talebi and P. Milanfar, "Learning to resize images for computer vision tasks," 2021.

[29] I. Zeger, S. Grgic, J. Vukovic, and G. Sisul, "Grayscale image colorization methods: Overview and evaluation," *IEEE Access*, vol. 9, pp. 113 326–113 346, 2021.

[30] P. Papale, A. Leo, L. Cecchetti, G. Handjaras, K. N. Kay, P. Pietrini, and E. Ricciardi, "Foreground-background segmentation revealed during natural image viewing," *eneuro*, vol. 5, no. 3, pp. ENEURO.0075–18.2018, May 2018.

[31] U. Ahmad, *Pengolahan citra digital dan teknik pemrogramannya*, 2005.

[32] A. F. Agarap, "Deep learning using rectified linear units (relu)," 2018.

[33] Siddhartha, "An interpretation of the final fully connected layer," 2022.

[34] N. Gunawardena, J. A. Ginige, B. Javadi, and G. Lui, "Performance analysis of cnn models for mobile device eye tracking with edge computing," *Procedia Computer Science*, vol. 207, pp. 2291–2300, 2022.

[35] X. Tao, D. Zhang, Z. Wang, X. Liu, H. Zhang, and D. Xu, "Detection of power line insulator defects using aerial images analyzed with convolutional neural networks," *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, vol. 50, no. 4, pp. 1486–1498, Apr. 2020.

[36] A. Géron, *Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems.* O'Reilly Media.

[37] K. Simonyan and A. Zisserman, "Very deep convolutional networks for large-scale image recognition," 2014.

[38] M. Sandler, A. Howard, M. Zhu, A. Zhmoginov, and L.-C. Chen, "Mobilenetv2: Inverted residuals and linear bottlenecks," 2018.

[39] K. He, X. Zhang, S. Ren, and J. Sun, "Identity mappings in deep residual networks," 2016.