

## DAFTAR PUSTAKA

- Abiodun, O. I., Jantan, A., Omolara, A. E., Dada, K. V., Mohamed, N. A. E., & Arshad, H. (2018). State-of-the-art in Artificial Neural Network Applications: A Survey. *Heliyon*, 4(11), e00938. <https://doi.org/10.1016/j.heliyon.2018.e00938>
- Adytia, P., Asmaramany, D., & Sussolaikah, K. (2024). *Coffee Type Classification Using Backpropagation Artificial Neural Network*. 7(1), 193–199.
- Ahamed, K. U., Islam, M., Uddin, A., Akhter, A., Paul, B. K., Yousuf, M. A., Uddin, S., Quinn, J. M. W., & Moni, M. A. (2021). A Deep Learning Approach Using Effective Preprocessing Techniques to Detect COVID-19 from Chest CT-Scan and X-Ray Images. *Computers in Biology and Medicine*, 139(October), 105014. <https://doi.org/10.1016/j.compbiomed.2021.105014>
- Ahsani, A. F., Sari, Y. A., & Adikara, P. P. (2019). Food Image Retrieval with Gray Level Co-Occurrence Matrix Texture Feature and CIE L\*a\*b\* Color Moments Feature. *Proceedings of 2019 4th International Conference on Sustainable Information Engineering and Technology, SIET 2019*, 130–134. <https://doi.org/10.1109/SIET48054.2019.8985990>
- Arifin, J. (2022). Klasifikasi Citra Tekstur Kayu Menggunakan Gray Level Co-Occurance Matrix Dan Local Binary Pattern. *JIKO (Jurnal Informatika dan Komputer)*, 6(1), 34. <https://doi.org/10.26798/jiko.v6i1.557>
- Atika, A. (2022). *Upaya Kominfo berantas aksi penipuan transaksi online. Kementerian Komunikasi dan Informatika Republik Indonesia*. <https://aptika.kominfo.go.id/2022/10/upaya-kominfo-berantas-aksi-penipuan-transaksi-online/> (diakses 7 Januari 2024)
- Awaliah, A. U. (2021). *Analisis Peran Polda Daerah Istimewa Yogyakarta dalam Pengungkapan Kasus Penipuan Jual Beli Online*. Universitas Islam Indonesia.
- Azzahra, A. R. (2023). Klasifikasi Daun Herbal Menggunakan Metode CNN dan Naïve Bayes dengan Fitur GLCM. *Indonesian Journal of Computer Science*, 12(4). <https://doi.org/10.33022/ijcs.v12i4.3362>
- Baykal, I. C. (2019). Performance Comparison of Texture Classifiers on Small Windows. *2019 International Conference on Artificial Intelligence and Data Processing Symposium, IDAP 2019, 1*, 1–6. <https://doi.org/10.1109/IDAP.2019.8875882>
- Chen, L., Li, S., Bai, Q., Yang, J., Jiang, S., & Miao, Y. (2021). Review of Image Classification Algorithms Based on Convolutional Neural Networks. *Remote Sensing*, 13(22), 0–51. <https://doi.org/10.3390/rs13224712>
- Dalal, S., Vishwakarma, V. P., & Kumar, S. (2020). Feature-based Sketch-Photo Matching for Face Recognition. *Procedia Computer Science*, 167, 562–570. <https://doi.org/10.1016/j.procs.2020.03.318>
- Dijaya, R., & Setiawan, H. (2023). Buku Ajar Pengolahan Citra Digital. In *UMSIDA Press*. Umsida Press. <https://doi.org/10.21070/2023/978-623-464-075-5>

- Ding, B., Qian, H., & Zhou, J. (2018). Activation Functions and Their Characteristics in Deep Neural Networks. *2018 Chinese Control And Decision Conference (CCDC)*, 1836–1841. <https://doi.org/10.1109/CCDC.2018.8407425>
- Fadnavis, S. (2014). Image Interpolation Techniques in Digital Image Processing: An Overview. *Journal of Engineering Research and Applications www.ijera.com*, 4(March), 70–73. [www.ijera.com](http://www.ijera.com)
- Faisal, M., Hasan, M., & Pelangi, K. C. (2023). The Implementation of GLCM and ANN Methods to Identify Dragon Fruit Maturity Level. *ILKOM Jurnal Ilmiah*, 15(1), 64–71. <https://doi.org/10.33096/ilkom.v15i1.1504.64-71>
- Fathurrahman, I., & Gunawan, I. (2018). Pengenalan Citra Logo Kendaraan Menggunakan Metode Gray Level Co-Occurrence Matrix (Glcm) dan Jst-Backpropagation. *Infotek : Jurnal Informatika dan Teknologi*, 1(1), 47–55. <https://doi.org/10.29408/jit.v1i1.894>
- Gonzales, R. C., & Woods, R. E. (2018). Digital Image Processing. In *Radiologic technology* (4th Edition). Pearson Education.
- Gonzalez, R. C., & Woods, R. E. (2008). *Digital Image Processing* (3rd Edition). Pearson Prentice Hall.
- Gurney, K. (1997). *An Introduction to Neural Networks*. CRC Press. <https://doi.org/10.1201/9781315273570>
- Hakim, L., Kristanto, S. P., Yusuf, D., & Afia, F. N. (2022). Pengenalan Motif Batik Banyuwangi Berdasarkan Fitur Grey Level Co-Occurrence Matrix. *Jurnal Teknoinfo*, 16(1), 1. <https://doi.org/10.33365/jti.v16i1.1320>
- Hall-Beyer, M. (2017). Practical Guidelines for Choosing GLCM Textures to Use in Landscape Classification Tasks Over a Range of Moderate Spatial Scales. *International Journal of Remote Sensing*, 38(5), 1312–1338. <https://doi.org/10.1080/01431161.2016.1278314>
- Haryanto, T., Pratama, A., Suhartanto, H., Murni, A., Kusmardi, K., & Pidanic, J. (2020). Multipatch-GLCM for Texture Feature Extraction on Classification of The Colon Histopathology Images Using Deep Neural Network with GPU Acceleration. *Journal of Computer Science*, 16(3), 280–294. <https://doi.org/10.3844/JCSSP.2020.280.294>
- Hasan, N. F., Kusriani, K., & Fatta, H. Al. (2019). Peramalan Jumlah Penjualan Menggunakan Jaringan Syaraf Tiruan Backpropagation Pada Perusahaan Air Minum Dalam Kemasan. *Jurnal Teknik Informatika dan Sistem Informasi*, 5(2), 179–188. <https://doi.org/10.28932/jutisi.v5i2.1607>
- Hoang, A. T., Nižetić, S., Ong, H. C., Tarelko, W., Pham, V. V., Le, T. H., Chau, M. Q., & Nguyen, X. P. (2021). A Review on Application of Artificial Neural Network (ANN) for Performance and Emission Characteristics of Diesel Engine Fueled with Biodiesel-based Fuels. *Sustainable Energy Technologies and Assessments*, 47(January). <https://doi.org/10.1016/j.seta.2021.101416>
- Irawan, C., Ardyastiti, E. N., Setiadi, D. R. I. M., Rachmawanto, E. H., & Sari, C. A. (2018). A Survey: Effect of The Number of GLCM Features on Classification Accuracy of Lasem Batik Images using K-Nearest Neighbor. *2018 International Seminar on*

*Research of Information Technology and Intelligent Systems, ISRITI 2018*, 33–38.  
<https://doi.org/10.1109/ISRITI.2018.8864443>

- Jadon, S. (2020). A Survey of Loss Functions for Semantic Segmentation. *2020 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology, CIBCB 2020*. <https://doi.org/10.1109/CIBCB48159.2020.9277638>
- Jana, E., Subban, R., & Saraswathi, S. (2018). Research on Skin Cancer Cell Detection Using Image Processing. *2017 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 2017*. <https://doi.org/10.1109/ICCIC.2017.8524554>
- Kamavisdar, P., Saluja, S., & Agrawal, S. (2013). A Survey on Image Classification Approaches and Techniques. *International Journal of Advanced Research in Computer and Communication Engineering*, 2(1).
- Kim, D. H., & Ye, S. Y. (2021). Classification of Chronic Kidney Disease in Sonography using The GLCM and Artificial Neural Network. *Diagnostics*, 11(5). <https://doi.org/10.3390/diagnostics11050864>
- Kingma, D. P., & Ba, J. L. (2015). Adam: A Method for Stochastic Optimization. *3rd International Conference on Learning Representations, ICLR 2015 - Conference Track Proceedings*, 1–15.
- Kuribayashi, M., Kamakari, K., & Funabiki, N. (2022). Classification of Screenshot Image Captured in Online Meeting System. In A. Holzinger, P. Kieseberg, A. M. Tjoa, & E. Weippl (Ed.), *Machine Learning and Knowledge Extraction* (Vol. 13480, hal. 244–255). Springer International Publishing. [https://doi.org/10.1007/978-3-031-14463-9\\_16](https://doi.org/10.1007/978-3-031-14463-9_16)
- Lillicrap, T. P., Santoro, A., Marris, L., Akerman, C. J., & Hinton, G. (2020). Backpropagation and the brain. *Nature Reviews Neuroscience*, 21(6), 335–346. <https://doi.org/10.1038/s41583-020-0277-3>
- Luque, A., Carrasco, A., Martín, A., & de las Heras, A. (2019). The Impact of Class Imbalance in Classification Performance Metrics Based on The Binary Confusion Matrix. *Pattern Recognition*, 91, 216–231. <https://doi.org/10.1016/j.patcog.2019.02.023>
- Maharana, K., Mondal, S., & Nemade, B. (2022). A Review: Data Pre-processing and Data Augmentation Techniques. *Global Transitions Proceedings*, 3(1), 91–99. <https://doi.org/10.1016/j.gltp.2022.04.020>
- Mall, P. K., Singh, P. K., & Yadav, D. (2019). GLCM Based Feature Extraction and Medical X-RAY Image Classification using Machine Learning Techniques. *2019 IEEE Conference on Information and Communication Technology, CICT 2019, December*. <https://doi.org/10.1109/CICT48419.2019.9066263>
- Mayatopani, H., Borman, R. I., Atmojo, W. T., & Arisantoso. (2021). Classification of Vehicle Types Using Backpropagation. *Jurnal Riset Informatika*, 4(1). <https://ejournal.kresnamediapublisher.com/index.php/jri/article/view/139>
- Nasser, I. M., & Abu-Naser, S. S. (2019). Lung Cancer Detection Using Artificial Neural Network. *International Journal of Engineering and Information Systems (IJEAIS)*,

3(3), 17–23. <https://ssrn.com/abstract=3369062>

- Nisa, U., Nisak, C. L. C., & Fatia, D. (2023). Literasi Digital Lansia pada Aspek Digital Skill dan Digital Safety. *Jurnal Komunikasi Global*, 12(1), 143–167.
- Nwankpa, C., Ijomah, W., Gachagan, A., & Marshall, S. (2018). *Activation Functions: Comparison of trends in Practice and Research for Deep Learning*. 1–20. <http://arxiv.org/abs/1811.03378>
- Patel, V., Shah, S., Trivedi, H., & Naik, U. (2020). An Analysis of Lung Tumor Classification Using SVM and ANN with GLCM Features. *Lecture Notes in Networks and Systems*, 121(Ic4s), 273–284. [https://doi.org/10.1007/978-981-15-3369-3\\_21](https://doi.org/10.1007/978-981-15-3369-3_21)
- Putra, H. R. W., & Yuhandri, Y. (2021). Identifikasi Penderita COVID-19 Berdasarkan Chest X-Ray Menggunakan Algoritma Jaringan Syaraf Tiruan Backpropagation. *Jurnal Sistim Informasi dan Teknologi*, 3, 197–202. <https://doi.org/10.37034/jsisfotek.v3i4.65>
- Rahman, B. (2016). Pertanggungjawaban Bank Terhadap Kerugian Nasabah yang Terkait dengan Fasilitas Transaksi Melalui SMS Banking. *Jurnal Nestor Magister Hukum*, 1(1).
- Ricardo, D., & Gasim, G. (2019). Perbandingan Akurasi Pengenalan Jenis Beras dengan Algoritma Propagasi Balik pada Beberapa Resolusi Kamera. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*, 3(2), 131–140. <https://doi.org/10.29207/resti.v3i2.894>
- Rivan, M. E. Al, & Noviardy, M. T. (2020). Klasifikasi American Sign Language Menggunakan Ekstraksi Fitur Histogram of Oriented Gradients dan Jaringan Syaraf Tiruan. *Jurnal Teknik Informatika dan Sistem Informasi*, 6(3), 442–451. <https://doi.org/10.28932/jutisi.v6i3.2844>
- Rivan, M. E. Al, Rachmat, N., & Ayustin, M. R. (2020). Klasifikasi Jenis Kacang-Kacangan Berdasarkan Tekstur Menggunakan Jaringan Syaraf Tiruan. *Jurnal Komputer Terapan*, 6(1), 89–98. <https://doi.org/10.35143/jkt.v6i1.3546>
- Ruby, D. A. U., Theerthagiri, P., Jacob, D. I. J., & Vamisdhar, D. . (2020). Binary Cross Entropy with Deep Learning Technique for Image Classification. *International Journal of Advanced Trends in Computer Science and Engineering*, 9(4). <https://doi.org/10.30534/ijatcse/2020/175942020>
- Sanghvi, K., Aralkar, A., Sanghvi, S., & Saha, I. (2020). A Survey on Image Classification Techniques. *SSRN Electronic Journal, January*. <https://doi.org/10.2139/ssrn.3754116>
- Setiawan, S. I. A. (2011). Penerapan Jaringan Saraf Tiruan Metode Backpropagation Menggunakan VB 6. *Jurnal ULTIMATICS*, 3(2), 23–28. <https://doi.org/10.31937/ti.v3i2.301>
- Setiawati, S. (2024). *Cashless makin digemari, ini 5 digital banking pilihan warga RI*. CNBC Indonesia. <https://www.cnbcindonesia.com/research/20240610063016-128-545113/cashless-makin-digemari-ini-5-digital-banking-pilihan-warga-ri> (diakses 26 September 2024)

- Sharma, A., Yadav, D. P., Garg, H., Kumar, M., Sharma, B., & Koundal, D. (2021). Bone Cancer Detection Using Feature Extraction Based Machine Learning Model. *Computational and Mathematical Methods in Medicine*, 2021, 1–13. <https://doi.org/10.1155/2021/7433186>
- Sharma, S., Sharma, S., & Athaiya, A. (2020). Activation Functions in Neural Networks. *International Journal of Engineering Applied Sciences and Technology*, 04(12), 310–316. <https://doi.org/10.33564/ijeast.2020.v04i12.054>
- Shivanandappa, M., & Patil, M. M. (2018). Interpolation Techniques in Image Resampling. *International Journal of Engineering & Technology*, 567–570.
- Suatap, C., & Patanukhom, K. (2022). Development of Convolutional Neural Networks for Analyzing Game Icon and Screenshot Images. *International Journal of Pattern Recognition and Artificial Intelligence*, 36(14). <https://doi.org/10.1142/S0218001422540234>
- Suatap, C., & Patanukhom, K. (2019). Game Genre Classification from Icon and Screenshot Images Using Convolutional Neural Networks. *Proceedings of the 2019 2nd Artificial Intelligence and Cloud Computing Conference*, 51–58. <https://doi.org/10.1145/3375959.3375988>
- Suryadi, E., & Hermanto, D. (2023). Perbandingan Tingkat Akurasi Daging Bakso Berdasarkan Resolusi Kamera Smartphone Menggunakan Metode Jaringan Syaraf Tiruan Backpropagation. *PROSISKO: Jurnal Pengembangan Riset dan Observasi Sistem Komputer*, 10(2), 128–135. <https://doi.org/10.30656/prosisko.v10i2.6973>
- Ullu, H. H., Baso, B., Risald, R., Manek, P. G., & Chrisinta, D. (2022). Ekstraksi Fitur Berbasis Tekstur Pada Citra Tenun Timor Menggunakan Metode Gray Level Co-occurrence Matrix (GLCM). *Journal of Information and Technology*, 2(2), 70–74. <https://doi.org/10.32938/jitu.v2i2.3245>
- Xing, Z., & Jia, H. (2019). Multilevel Color Image Segmentation Based on GLCM and Improved Salp Swarm Algorithm. *IEEE Access*, 7, 37672–37690. <https://doi.org/10.1109/ACCESS.2019.2904511>
- Zulpe, N., & Pawar, V. (2012). GLCM Textural Features for Brain Tumor Classification. *International Journal of Computer Science*, 9(3), 354–359. <http://www.doaj.org/doaj?func=abstract&id=1158398>