

DAFTAR PUSTAKA

- Abdo AS, Mohammed KK, Ahmed R, Alshater H, Aly SA, Darwish A, Hassanein AE. 2024. Infrared Images Spectra Multi-class Classification Model Based on Deep Learning. *International Journal of Intelligent Systems and Applications*. 16(4):22–38. <https://doi.org/10.5815/ijisa.2024.04.02>.
- Adedeji AA, Okeke A, Rady AM. 2023. Utilization of FTIR and Machine Learning for Evaluating Gluten-Free Bread Contaminated with Wheat Flour. *Sustainability (Switzerland)*. 15(11). <https://doi.org/10.3390/su15118742>.
- Aja-Fernández S, Curiale AH, Prince JL. 2024 Jan 1. Image filtering: enhancement and restoration. *Med Image Anal.*, siap terbit.
- Asche G. 2017. “80% of technical information found only in patents” – Is there proof of this? *World Patent Information*. 48. <https://doi.org/10.1016/j.wpi.2016.11.004>.
- Atanasov AG, Zotchev SB, Dirsch VM, Orhan IE, Banach M, Rollinger JM, Barreca D, Weckwerth W, Bauer R, Bayer EA, *et al.* 2021. Natural products in drug discovery: advances and opportunities. *Nat Rev Drug Discov*. 20(3). <https://doi.org/10.1038/s41573-020-00114-z>.
- Bruno TJ, Robinson JW, Frame EMS, Frame GM. 2023. *Undergraduate Instrumental Analysis, Eighth Edition*.
- Cheremisinoff NP. 2001 Jan 1. C. *Condensed Encyclopedia of Polymer Engineering Terms.*, siap terbit.
- Chollet F. 2019. *Chollet - 2018 - Deep learning with Python*. Volume ke-53.
- Enders AA, North NM, Fensore CM, Velez-Alvarez J, Allen HC. 2021. Functional Group Identification for FTIR Spectra Using Image-Based Machine Learning Models. *Anal Chem*. 93(28). <https://doi.org/10.1021/acs.analchem.1c00867>.
- Enyoh CE, Wang Q. 2024. Automated Classification of Undegraded and Aged Polyethylene Terephthalate Microplastics from ATR-FTIR Spectroscopy using Machine Learning Algorithms. *J Polym Environ*. 32(9):4143–4158. <https://doi.org/10.1007/s10924-024-03199-4>.
- Nyarko EB, Bin W, Zhou J, Agordzo GK, Odoom J, Koukoyi E. 2022. Comparative Analysis of AlexNet, Resnet-50, and Inception-V3 Models on Masked Face Recognition. Di dalam: *2022 IEEE World AI IoT Congress (AllIoT)*. IEEE. hlm 337–343.
- Ghosh A, Sufian A, Sultana F, Chakrabarti A, De D. 2020. Fundamental Concepts of Convolutional Neural Network. hlm 519–567.
- Gong Y, Chen X, Wu W. 2024. Application of fourier transform infrared (FTIR) spectroscopy in sample preparation: Material characterization and mechanism investigation. *Advances in Sample Preparation*. 11:100122. <https://doi.org/10.1016/j.sampre.2024.100122>.
- Goodfellow I, Bengio Y, Courville A. 2016. Deep Learning. *Nature*. 26(7553).

- Herdian C, Kamila A, Agung Musa Budidarma IG. 2024. Studi Kasus Feature Engineering Untuk Data Teks: Perbandingan Label Encoding dan One-Hot Encoding Pada Metode Linear Regresi. *Technologia : Jurnal Ilmiah*. 15(1):93. <https://doi.org/10.31602/tji.v15i1.13457>.
- Molčan S, Smiešková M, Bachratý H, Bachratá K, Novotný P. 2023. Classification of Red Blood Cells Using Time-Distributed Convolutional Neural Networks from Simulated Videos. *Applied Sciences*. 13(13):7967. <https://doi.org/10.3390/app13137967>.
- Nashrullah F, Wibowo SA, Budiman G. 2020. The Investigation of Epoch Parameters in ResNet-50 Architecture for Pornographic Classification. *Journal of Computer, Electronic, and Telecommunication*. 1(1). <https://doi.org/10.52435/complete.v1i1.51>.
- Patterson J, Gibson A. 2016. *Deep Learning A PRACTITIONER'S APPROACH*. Volume ke-29.
- Przybył K, Koszela K, Adamski F, Samborska K, Walkowiak K, Polarczyk M. 2021. Deep and Machine Learning Using SEM, FTIR, and Texture Analysis to Detect Polysaccharide in Raspberry Powders. *Sensors*. 21(17):5823. <https://doi.org/10.3390/s21175823>.
- Sarwinda D, Paradisa RH, Bustamam A, Anggia P. 2021. Deep Learning in Image Classification using Residual Network (ResNet) Variants for Detection of Colorectal Cancer. *Procedia Comput Sci*. 179:423–431. <https://doi.org/10.1016/j.procs.2021.01.025>.
- Shah SR, Qadri S, Bibi H, Shah SMW, Sharif MI, Marinello F. 2023. Comparing Inception V3, VGG 16, VGG 19, CNN, and ResNet 50: A Case Study on Early Detection of a Rice Disease. *Agronomy*. 13(6):1633. <https://doi.org/10.3390/agronomy13061633>.
- Simoben C V., Babiaka SB, Moumbock AFA, Namba-Nzanguim CT, Eni DB, Medina-Franco JL, Günther S, Ntie-Kang F, Sippl W. 2023. Challenges in natural product-based drug discovery assisted with *in silico* -based methods. *RSC Adv*. 13(45):31578–31594. <https://doi.org/10.1039/D3RA06831E>.
- Skoog DA, Holler FJ, Crouch SR. 2017. *Principles of Instrumental Analysis Seventh Edition*.
- Smith JG. 2018. *Organic Chemistry 6th Edition*. Ed ke-6th. Mc-Graw Hill.
- Subandi R, Herman, Yudhana A. 2023. Pre-Processing Pada Klasifikasi Citra Medis Pneumonia. *Decode: Jurnal Pendidikan Teknologi Informasi*. 4(1):86–93. <https://doi.org/10.51454/decode.v4i1.198>.
- Talebi H, Milanfar P. 2021. Learning to Resize Images for Computer Vision Tasks. Di dalam: *2021 IEEE/CVF International Conference on Computer Vision (ICCV)*. IEEE. hlm 487–496.
- Tribuana D, Hazriani, Arda AL. 2024. Image Preprocessing Approaches Toward Better Learning Performance with CNN. *Jurnal RESTI (Rekayasa Sistem dan Teknologi Informasi)*. 8(1):1–9. <https://doi.org/10.29207/resti.v8i1.5417>.
- Wade LG, Simek JW. 2016. *Organic Chemistry*.
- Weidman S. 2019. *Deep Learning from Scratch: Building with Python from First Principles*. O'Reilly Media.

Yuhandri. 2019. PERBANDINGAN METODE CROPPING PADA SEBUAH CITRA UNTUK PENGAMBILAN MOTIF TERTENTU PADA KAIN SONGKET SUMATERA BARAT. *KOMTEKINFO*. 6(1):95–105. <https://doi.org/10.35134/komtekinfo.v6i1.273>.