

DAFTAR PUSTAKA

- Agarwal, N., Sondhi, A., Chopra, K., & Singh, G. (2021). Transfer Learning: Survey and Classification. Dalam *Advances in Intelligent Systems and Computing* (Vol. 1168, hlm. 145–155). https://doi.org/10.1007/978-981-15-5345-5_8
- Akiyama, T., Kobayashi, Y., Sasaki, Y., Sasaki, K., Kawaguchi, T., & Kishigami, J. (2019). Mobile leaf identification system using CNN applied to plants in Hokkaido. *2019 IEEE 8th Global Conference on Consumer Electronics, GCCE 2019*, 324–325. <https://doi.org/10.1109/GCCE46687.2019.9015298>
- Ali, M. A., El Munim, H. E. A., Yousef, A. H., & Hammad, S. (2018). A Deep Learning Approach for Vehicle Detection. *13th International Conference on Computer Engineering and Systems (ICCES)*, 1–23. <https://doi.org/10.1109/ICCES.2018.8639313>
- Anonim. (2023). Deteksi Penyakit Daun Kopi Robusta Dataset. Dalam *Roboflow Universe*. Roboflow. <https://universe.roboflow.com/tugas-akhir-70fw5/deteksi-penyakit-daun-kopi-robusta>
- Anonim. (2024). Coffee Leaf Computer Vision Project. Dalam *Roboflow Universe*. Roboflow. <https://universe.roboflow.com/tugas-akhir-adf4p/coffee-leaf>
- Ardiansyah, A., & Hasan, N. F. (2023). Deteksi dan Klasifikasi Penyakit Pada Daun Kopi Menggunakan YOLOv7. *Jurnal Sisfokom (Sistem Informasi dan Komputer)*, 12(1), 30–35. <https://doi.org/10.32736/sisfokom.v12i1.1545>
- Atila, Ü., Uçar, M., Akyol, K., & Uçar, E. (2021). Plant leaf disease classification using EfficientNet deep learning model. *Ecological Informatics*, 61. <https://doi.org/10.1016/j.ecoinf.2020.101182>
- Aufar, Y., & Kaloka, T. P. (2022). Robusta coffee leaf diseases detection based on MobileNetV2 model. *International Journal of Electrical and Computer Engineering*, 12(6), 6675–6683. <https://doi.org/10.11591/ijece.v12i6.pp6675-6683>
- Bhatt, D., Patel, C., Talsania, H., Patel, J., Vaghela, R., Pandya, S., Modi, K., & Ghayvat, H. (2021). Cnn variants for computer vision: History, architecture,

- application, challenges and future scope. Dalam *Electronics (Switzerland)* (Vol. 10, Nomor 20). MDPI. <https://doi.org/10.3390/electronics10202470>
- Chao, X., Sun, G., Zhao, H., Li, M., & He, D. (2020). Identification of apple tree leaf diseases based on deep learning models. *Symmetry*, 12(7). <https://doi.org/10.3390/sym12071065>
- Cheppy, W., Arsi, Karenina, T., Riyanto, Nirwanto, Y., Nurcahya, I., Melani, D., Astuti, D., Septiarini, D., Purba, S. R. F., Ramdan, E. P., & Nurul, D. (2021). *Hama dan Penyakit Tanaman*.
- Duong, L. T., Tran, T. B., Le, N. H., Ngo, V. M., & Nguyen, P. T. (2024). Automatic detection of weeds: synergy between EfficientNet and transfer learning to enhance the prediction accuracy. *Soft Computing*, 28(6), 5029–5044. <https://doi.org/10.1007/s00500-023-09212-7>
- Fatchurrachman, A., & Udjulawa, D. (2023). Identifikasi Penyakit Pada Tanaman Kopi Berdasarkan Citra Daun Menggunakan Metode Convolution Neural Network. *Jurnal Algoritme*, 3(2), 151–159. <https://doi.org/10.35957/algoritme.xxxx>
- Gerace, F., Doimo, D., Mannelli, S. S., Saglietti, L., & Laio, A. (2023). *Optimal transfer protocol by incremental layer defrosting*. <http://arxiv.org/abs/2303.01429>
- Herdianto, & Nasution, D. (2022). Klasifikasi Objek Menggunakan Metode Convolutional Neural Network (CNN). *Prosiding SNASTIKOM: Seminar Nasional Teknologi Informasi & Komunikasi Paper*, 330–336.
- Herwina, Darmatasia, Kahfi Aash Shidiq, A., & Dzikrullah Syahputrai, T. (2022). Deteksi Penyakit pada Tanaman Padi Menggunakan MobileNet Transfer Learning Berbasis Android. *Agents Journal of Artificial Intelligence & Data Science*, 2(2), 1–8.
- Ijaz, M., Tariq, N., & Malik, A. (2024). Performance Evaluation of the U-Net Model for Medical Image Segmentation Using Dice Coefficient, IOU, and Loss Metrics. *History of medicine*, 10(2). <https://doi.org/10.48047/HM.10.2.2024.1314-1324>

- Janiesch, C., Zschech, P., & Heinrich, K. (2021). Machine learning and deep learning. *Electronic Markets*, 31, 685–695. <https://doi.org/10.1007/s12525-021-00475-2/Published>
- Jha, P., Dembla, D., & Dubey, W. (2024). Deep learning models for enhancing potato leaf disease prediction: Implementation of transfer learning based stacking ensemble model. *Multimedia Tools and Applications*, 83(13), 37839–37858. <https://doi.org/10.1007/s11042-023-16993-4>
- 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.
- Kumar, M., Gupta, P., Madhav, P., & Sachin. (2020). Disease Detection in Coffee Plants Using Convolutional Neural Network. *Proceedings of the 5th International Conference on Communication and Electronics Systems (ICCES 2020)*, 755–760.
- Kusrini, K., Suputa, S., Setyanto, A., Agastya, I. M. A., Priantoro, H., Chandramouli, K., & Izquierdo, E. (2020). Data augmentation for automated pest classification in Mango farms. *Computers and Electronics in Agriculture*, 179. <https://doi.org/10.1016/j.compag.2020.105842>
- Lecun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. *Nature*, 521(7553), 436–444. <https://doi.org/10.1038/nature14539>
- Leonardo, V., & Milantara, N. (2023). HAMA DAN PENYAKIT KOPI ARABIKA (*Coffea arabica*) DI HKM SOLOK RADJO, AIE DINGIN, KECAMATAN LEMBAH GUMANTI, KABUPATEN SOLOK, PROVINSI SUMATERA BARAT. *SYLVA: jurnal penelitian ilmu-ilmu kehutanan*, 12–20. <https://doi.org/10.32502/sylva.v12i1.7041>
- Lian, S., Guan, L., Pei, J., Zeng, G., & Li, M. (2024). Identification of apple leaf diseases using C-Grabcut algorithm and improved transfer learning base on low shot learning. *Multimedia Tools and Applications*, 83(9), 27411–27433. <https://doi.org/10.1007/s11042-023-16602-4>

- Liu, J., & Wang, X. (2021). Plant diseases and pests detection based on deep learning: a review. Dalam *Plant Methods* (Vol. 17, Nomor 1, hlm. 1–18). BioMed Central Ltd. <https://doi.org/10.1186/s13007-021-00722-9>
- Liu, Y., Gao, G., & Zhang, Z. (2021). Plant disease detection based on lightweight CNN model. *Proceedings - 2021 4th International Conference on Information and Computer Technologies, ICICT 2021*, 64–68. <https://doi.org/10.1109/ICICT52872.2021.00018>
- M, S. D., Akhilesh, Kumar, S. A., G, R. M., & C, P. (2019). Image based Plant Disease Detection in Pomegranate Plant for Bacterial Blight. *International Conference on Communication and Signal Processing*, 645–649.
- Manso, G. L., Knidel, H., Krohling, R. A., & Ventura, J. A. (2019). *A smartphone application to detection and classification of coffee leaf miner and coffee leaf rust*. <http://arxiv.org/abs/1904.00742>
- Montalbo, F. J. P., & Hernandez, A. A. (2020). Classifying barako coffee leaf diseases using deep convolutional models. *International Journal of Advances in Intelligent Informatics*, 6(2), 197–209. <https://doi.org/10.26555/ijain.v6i2.495>
- Müller, D., Soto-Rey, I., & Kramer, F. (2022). *TOWARDS A GUIDELINE FOR EVALUATION METRICS IN MEDICAL IMAGE SEGMENTATION*.
- Nayak, A., Chakraborty, S., & Swain, D. K. (2023). Application of smartphone-image processing and transfer learning for rice disease and nutrient deficiency detection. *Smart Agricultural Technology*, 4(February), 100195. <https://doi.org/10.1016/j.atech.2023.100195>
- Ngugi, L. C., Abelwahab, M., & Abo-Zahhad, M. (2020). Tomato leaf segmentation algorithms for mobile phone applications using deep learning. *Computers and Electronics in Agriculture*, 178. <https://doi.org/10.1016/j.compag.2020.105788>
- Nigam, S., Jain, R., Marwaha, S., Arora, A., Haque, M. A., Dheeraj, A., & Singh, V. K. (2023). Deep transfer learning model for disease identification in wheat crop. *Ecological Informatics*, 75. <https://doi.org/10.1016/j.ecoinf.2023.102068>

- Pamadi, A. M., Ravishankar, A., Anu Nithya, P., Jahnavi, G., & Kathavate, S. (2022). Diabetic Retinopathy Detection using MobileNetV2 Architecture. *1st IEEE International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2022*, 1–5. <https://doi.org/10.1109/ICSTSN53084.2022.9761289>
- Robbins, H., & Monro, S. (1951). A Stochastic Approximation Method. *Ann. Math. Statist.*, 3.
- Sabrina, S. A., & Al Maki, W. F. (2022). Klasifikasi Penyakit pada Tanaman Kopi Robusta Berdasarkan Citra Daun Menggunakan Convolutional Neural Network. *e-Proceeding of Engineering*, 1919–1927.
- Sandler, M., Howard, A., Zhu, M., Zhmoginov, A., & Chen, L. C. (2018). MobileNetV2: Inverted Residuals and Linear Bottlenecks. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 4510–4520. <https://doi.org/10.1109/CVPR.2018.00474>
- Setiawan, W., Ghofur, A., Hastarita Rachman, F., & Rulaningtyas, R. (2021). Deep Convolutional Neural Network AlexNet and Squeezenet for Maize Leaf Diseases Image Classification. *Kinetik: Game Technology, Information System, Computer Network, Computing, Electronics, and Control*, 4, 0–7. <https://doi.org/10.22219/kinetik.v6i4.1335>
- Sharma, P., Berwal, Y. P. S., & Ghai, W. (2020). Performance analysis of deep learning CNN models for disease detection in plants using image segmentation. *Information Processing in Agriculture*, 7(4), 566–574. <https://doi.org/10.1016/j.inpa.2019.11.001>
- Sharma, S., & Chaudhary, P. (2023). Machine learning and deep learning. *Quantum Computing and Artificial Intelligence: Training Machine and Deep Learning Algorithms on Quantum Computers*, 71–84. <https://doi.org/10.1515/9783110791402-004>
- Shrimali, S. (2021). PlantifyAI: A Novel Convolutional Neural Network Based Mobile Application for Efficient Crop Disease Detection and Treatment. *Procedia Computer Science*, 191, 469–474. <https://doi.org/10.1016/j.procs.2021.07.059>

- Simarmata, A. M., Zizwan Putra, A., & Mahmud Husein, A. (2023). Penerapan Metode Computer Vision Dalam Klasifikasi Buah Jeruk Menggunakan Teknik Image Pre-Processing. *Data Science Indonesia (DSI)*, 3(2), 110–116. <https://doi.org/10.47709/dsi.v3i2.4010>
- Singh, S. P., Pritamdas, K., Devi, K. J., & Devi, S. D. (2023). Custom Convolutional Neural Network for Detection and Classification of Rice Plant Diseases. *Procedia Computer Science*, 218(2022), 2026–2040. <https://doi.org/10.1016/j.procs.2023.01.179>
- Srivastava, M., & Meena, J. (2023). Plant leaf disease detection and classification using *modified* transfer learning models. Dalam *Multimedia Tools and Applications* (Nomor 0123456789). Springer US. <https://doi.org/10.1007/s11042-023-16929-y>
- Sugiarti, L. (2019). IDENTIFIKASI HAMA DAN PENYAKIT PADA TANAMAN KOPI DI KEBUN PERCOBAAN FAKULTAS PERTANIAN UNIVERSITAS WINAYA MUKTI. *Jurnal Agro Wiralodra*, 2(1), 16–22.
- Sulistya, Y. I. (2024). *ENSEMBLE DEEP LEARNING MENGGUNAKAN TRANSFER LEARNING UNTUK IDENTIFIKASI JENIS TANAMAN*. Universitas Gadjah Mada.
- Suprihanto, Awaludin, I., Fadhil, M., & Andhika Zaini Zulfikor, M. (2022). Analisis Kinerja ResNet-50 dalam Klasifikasi Penyakit pada Daun Kopi Robusta. *JURNAL INFORMATIKA*, 9(2). <http://ejournal.bsi.ac.id/ejurnal/index.php/ji>
- Taha, A. A., & Hanbury, A. (2015). Metrics for evaluating 3D medical image segmentation: Analysis, selection, and tool. *BMC Medical Imaging*, 15(1). <https://doi.org/10.1186/s12880-015-0068-x>
- Tian, Y., Zhang, Y., & Zhang, H. (2023). Recent Advances in Stochastic Gradient Descent in Deep Learning. *Mathematics*, 11(3). <https://doi.org/10.3390/math11030682>
- Toğaçar, M., Ergen, B., & Cömert, Z. (2020). COVID-19 detection using deep learning models to exploit Social Mimic Optimization and structured chest X-

- ray images using fuzzy color and stacking approaches. *Computers in Biology and Medicine*, 121(May). <https://doi.org/10.1016/j.compbiomed.2020.103805>
- Tribuana, D., Hazriani, & Arda, A. L. (2024). Pra-pemrosesan gambar 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>
- Verma, D., Bordoloi, D., & Tripathi, V. (2021). Plant Leaf Disease Detection Using Mobilenetv2. *Webology*, 18(5), 3241–3246. <https://doi.org/10.29121/web/v18i5/60>
- Wahyuningtyas, B., Tritasmoro, I. I., & Ibrahim, N. (2022). Identifikasi Penyakit Pada Daun Kopi Menggunakan Metode Local Binary Pattern Dan Random Forest. *e-Proceeding of Engineering*, 2972–2980.
- Wessner, R. N., Frozza, R., Bagatini, D. D. da S., & Molz, R. F. (2023). Recognition of weeds in corn crops: System with convolutional neural networks. *Journal of Agriculture and Food Research*, 14(May), 100669. <https://doi.org/10.1016/j.jafr.2023.100669>
- Yang, Z., Shen, Y., Hou, L., Zhang, W. E., & Chen, T. (2024). S3Seg: A Three-Stage Unsupervised Foreground and Background Segmentation Network. *IEEE Signal Processing Letters*, 31, 1484–1488. <https://doi.org/10.1109/LSP.2024.3404348>
- Yu, L., Li, Z., Xu, M., Gao, Y., Luo, J., & Zhang, J. (2021). *Distribution-aware Margin Calibration for Semantic Segmentation in Images*. <https://doi.org/10.1007/s11263-021-01533-0>
- Zaelani, F., & Miftahuddin, Y. (2022). Perbandingan Metode EfficientNetB3 dan MobileNetV2 Untuk Identifikasi Jenis Buah-buahan Menggunakan Fitur Daun. *Jurnal Ilmiah Teknologi Infomasi Terapan*, 9(1), 1–11. <https://doi.org/10.33197/jitter.vol9.iss1.2022.911>
- Zhao, C., Pan, S., & Wang, W. (2024). Improved Canny Edge Detection Algorithm for Noisy Images. *Proceedings of the 4th International Conference on Artificial Intelligence and Computer Engineering*, 84–89. <https://doi.org/10.1145/3652628.3652642>

- Zhou, P., Feng, J., Ma, C., Xiong, C., Hoi, S., & E, W. (2020, Oktober 12). Towards Theoretically Understanding Why SGD Generalizes Better Than ADAM in Deep Learning. *34th Conference on Neural Information Processing Systems (NeurIPS 2020)*. <http://arxiv.org/abs/2010.05627>
- Zhu, Q., He, Z., Zhang, T., & Cui, W. (2020). Improving classification performance of softmax loss function based on scalable batch-normalization. *Applied Sciences (Switzerland)*, 10(8). <https://doi.org/10.3390/APP10082950>