

DAFTAR PUSTAKA

- [1] S. A. Burhan, D. S. Minhas, D. A. Tariq, and M. Nabeel Hassan, "Comparative Study of Deep Learning Algorithms for Disease and Pest Detection in Rice Crops," in *Proceedings of the 12th International Conference on Electronics, Computers and Artificial Intelligence, ECAI 2020*, Institute of Electrical and Electronics Engineers Inc., Jun. 2020. doi: 10.1109/ECAI50035.2020.9223239.
- [2] A. Julianto and A. Sunyoto, "A performance evaluation of convolutional neural network architecture for classification of rice leaf disease," *IAES International Journal of Artificial Intelligence*, vol. 10, no. 4, pp. 1069–1078, Dec. 2021, doi: 10.11591/IJAI.V10.I4.PP1069-1078.
- [3] Q. Wu, Y. Chen, and J. Meng, "Dcgan-based data augmentation for tomato leaf disease identification," *IEEE Access*, vol. 8, pp. 98716–98728, 2020, doi: 10.1109/ACCESS.2020.2997001.
- [4] G. Yang, G. Chen, C. Li, J. Fu, Y. Guo, and H. Liang, "Convolutional Rebalancing Network for the Classification of Large Imbalanced Rice Pest and Disease Datasets in the Field," *Front Plant Sci*, vol. 12, Jul. 2021, doi: 10.3389/fpls.2021.671134.
- [5] B. Talukdar, "Handling of Class Imbalance for Plant Disease Classification with Variants of GANs," in *2020 IEEE 15th International Conference on Industrial and Information Systems, ICIIIS 2020 - Proceedings*, Institute of Electrical and Electronics Engineers Inc., Nov. 2020, pp. 466–471. doi: 10.1109/ICIIIS51140.2020.9342728.
- [6] J. G. A. Barbedo, "Impact of dataset size and variety on the effectiveness of deep learning and transfer learning for plant disease classification," *Comput Electron Agric*, vol. 153, pp. 46–53, Oct. 2018, doi: 10.1016/j.compag.2018.08.013.
- [7] Y. Lu, X. Tao, N. Zeng, J. Du, and R. Shang, "Enhanced CNN Classification Capability for Small Rice Disease Datasets Using Progressive WGAN-GP: Algorithms and Applications," *Remote Sens (Basel)*, vol. 15, no. 7, Apr. 2023, doi: 10.3390/rs15071789.
- [8] L. Perez and J. Wang, "The Effectiveness of Data Augmentation in Image Classification using Deep Learning," Dec. 2017, [Online]. Available: <http://arxiv.org/abs/1712.04621>

- [9] L. Taylor and G. Nitschke, "Improving Deep Learning using Generic Data Augmentation," Aug. 2017, [Online]. Available: <http://arxiv.org/abs/1708.06020>
- [10] A. Radford, L. Metz, and S. Chintala, "Unsupervised Representation Learning with Deep Convolutional Generative Adversarial Networks," Nov. 2015, [Online]. Available: <http://arxiv.org/abs/1511.06434>
- [11] F. Zhu, M. He, and Z. Zheng, "Data augmentation using improved cDCGAN for plant vigor rating," *Comput Electron Agric*, vol. 175, Aug. 2020, doi: 10.1016/j.compag.2020.105603.
- [12] C. Han *et al.*, "Combining noise-to-image and image-to-image GANs: Brain MR image augmentation for tumor detection," *IEEE Access*, vol. 7, pp. 156966–156977, 2019, doi: 10.1109/ACCESS.2019.2947606.
- [13] S. K. Venu and S. Ravula, "Evaluation of deep convolutional generative adversarial networks for data augmentation of chest x-ray images," *Future Internet*, vol. 13, no. 1, pp. 1–13, Jan. 2021, doi: 10.3390/fi13010008.
- [14] Sugiyono, *Metode Penelitian Kuantitatif, Kualitatif dan R&D*. Bandung: ALFABETA, 2017.
- [15] V. Bayu Wibisono, D. Mai Abdul Imam Buqori, D. Agus Dyanshah, S. Hartatik, and M. Ubaidillah, "Karakterisasi Morfologi dan Molekuler Galur Padi Introduksi Golden Rice F8 terhadap Penyakit Blas dan Hawar Daun Bakteri," *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, vol. 50, no. 3, pp. 242–248, Dec. 2022, doi: 10.24831/jai.v50i3.41305.
- [16] R. Setiawan, H. Zein, and R. Agramanisti Azdy, "Rice Leaf Disease Classification with Machine Learning: An Approach Using Nu-SVM," *Indonesian Journal of Data and Science*, vol. 4, 2023, doi: 10.56705/ijodas.
- [17] D. Putra, *Pengolahan Citra Digital*. Yogyakarta: ANDI, 2010.
- [18] Y. Zhang, S. Wa, P. Sun, and Y. Wang, "Pear defect detection method based on ResNet and DCGAN," *Information (Switzerland)*, vol. 12, no. 10, Oct. 2021, doi: 10.3390/info12100397.
- [19] I. J. Goodfellow *et al.*, "Generative Adversarial Networks," Jun. 2014, [Online]. Available: <http://arxiv.org/abs/1406.2661>
- [20] M. Li, H. Tang, M. D. Chan, X. Zhou, and X. Qian, "DC-AL GAN: Pseudoprogression and true tumor progression of glioblastoma multiform image classification based on DCGAN and AlexNet," *Med Phys*, vol. 47, no. 3, pp. 1139–1150, Mar. 2020, doi: 10.1002/mp.14003.

- [21] D. P. Kingma and J. Ba, “Adam: A Method for Stochastic Optimization,” Dec. 2014, [Online]. Available: <http://arxiv.org/abs/1412.6980>
- [22] Suyanto, *Machine Learning: Tingkat Dasar dan Lanjut*. Bandung: Informatika, 2018.
- [23] Suyanto, K. Ramadhani, and S. Mandala, *Deep Learning: Modernisasi Machine Learning untuk Big Data*. Informatika, 2018.
- [24] V. Dumoulin and F. Visin, “A guide to convolution arithmetic for deep learning,” Mar. 2016, [Online]. Available: <http://arxiv.org/abs/1603.07285>
- [25] I. Goodfellow, Y. Bengio, and A. Courville, *Deep Learning*. MIT Press, 2016.
- [26] R. G. Zhou and C. Wan, “Quantum Image Scaling Based on Bilinear Interpolation with Decimals Scaling Ratio,” *International Journal of Theoretical Physics*, vol. 60, no. 6, pp. 2115–2144, Jun. 2021, doi: 10.1007/s10773-021-04829-6.
- [27] O. Rukundo, “Effects of Improved-Floor Function on the Accuracy of Bilinear Interpolation Algorithm.”
- [28] X. Mou, T. Zhu, and X. Zhou, “Visible-Image-Assisted Nonuniformity Correction of Infrared Images Using the GAN with SEBlock,” *Sensors*, vol. 23, no. 6, Mar. 2023, doi: 10.3390/s23063282.
- [29] C. Szegedy *et al.*, “Going Deeper with Convolutions,” Sep. 2014, [Online]. Available: <http://arxiv.org/abs/1409.4842>
- [30] TensorFlow, “TensorFlow Documentation,” <https://www.tensorflow.org>.
- [31] G. Parmar, R. Zhang, and J.-Y. Zhu, “On Aliased Resizing and Surprising Subtleties in GAN Evaluation,” Apr. 2021, [Online]. Available: <http://arxiv.org/abs/2104.11222>
- [32] A. Sunyoto and dan Emha Taufiq Luthfi, “AUGMENTASI DATA MENGGUNAKAN DCGAN PADA GAMBAR TANAH (DATA AUGMENTATION USING DCGAN FOR SOIL IMAGE).”
- [33] E. Secada Purba, “IMPLEMENTATION OF GENERATIVE ADVERSARIAL NETWORKS FOR CREATING DIGITAL ARTWORK IN THE FORM OF ABSTRACT IMAGES,” *Jurnal Teknik Informatika (JUTIF)*, vol. 3, no. 3, pp. 707–715, 2022, doi: 10.20884/1.jutif.2022.3.3.262.
- [34] D. Mourad and K. O. Oseni, “Synthetic Brain Images: Bridging the Gap in Brain Mapping With Generative Adversarial Model,” *International Journal*

of Managing Information Technology, vol. 16, no. 1, pp. 01–14, Feb. 2024, doi: 10.5121/ijmit.2024.16101.

- [35] K. He, X. Zhang, S. Ren, and J. Sun, “Delving Deep into Rectifiers: Surpassing Human-Level Performance on ImageNet Classification,” Feb. 2015, [Online]. Available: <http://arxiv.org/abs/1502.01852>
- [36] X. Glorot and Y. Bengio, “Understanding the difficulty of training deep feedforward neural networks.” [Online]. Available: <http://www.iro.umontreal>.
- [37] S. Ioffe and C. Szegedy, “Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift,” Feb. 2015, [Online]. Available: <http://arxiv.org/abs/1502.03167>
- [38] J. Davis and L. Frank, “Revisiting Batch Norm Initialization,” Oct. 2021, [Online]. Available: <http://arxiv.org/abs/2110.13989>
- [39] X. Mao, Q. Li, H. Xie, R. Y. K. Lau, Z. Wang, and S. P. Smolley, “Least Squares Generative Adversarial Networks,” Nov. 2016, [Online]. Available: <http://arxiv.org/abs/1611.04076>
- [40] A. Mathiasen and F. Hvilshøj, “Backpropagating through Fréchet Inception Distance,” Sep. 2020, [Online]. Available: <http://arxiv.org/abs/2009.14075>
- [41] M. Heusel, H. Ramsauer, T. Unterthiner, B. Nessler, and S. Hochreiter, “GANs Trained by a Two Time-Scale Update Rule Converge to a Local Nash Equilibrium,” Jun. 2017, [Online]. Available: <http://arxiv.org/abs/1706.08500>
- [42] T. Karras, S. Laine, and T. Aila, “A Style-Based Generator Architecture for Generative Adversarial Networks,” Dec. 2018, [Online]. Available: <http://arxiv.org/abs/1812.04948>