

## DAFTAR PUSTAKA

- Agarap, A. F. (2018). *Deep Learning using Rectified Linear Units (ReLU)*. 1, 2–8. <http://arxiv.org/abs/1803.08375>
- Baranwal, S., Khandelwal, S., & Arora, A. (2019). Deep Learning Convolutional Neural Network for Apple Leaves Disease Detection. *SSRN Electronic Journal, January*. <https://doi.org/10.2139/ssrn.3351641>
- Boyer, J., & Liu, R. H. (2004). Apple phytochemicals and their health benefits. *Nutrition Journal*, 3, 1–45. <https://doi.org/10.1186/1475-2891-3-1>
- Chollet, F. (2018). Deep Learning with Python. In *Manning* (pp. 2437–2444). <https://doi.org/10.23919/ICIF.2018.8455530>
- Christopher D. Manning, R. P., & Hinrich, S. (2009). An Introduction to Information Retrieval. *Cambridge UP*, 53(9), 462–463. <https://doi.org/10.1108/00242530410565256>
- Chuanlei, Z., Shanwen, Z., Jucheng, Y., Yancui, S., & Jia, C. (2017). Apple leaf disease identification using genetic algorithm and correlation based feature selection method. *International Journal of Agricultural and Biological Engineering*, 10(2), 74–83. <https://doi.org/10.3965/j.ijabe.20171002.2166>
- Dhingra, G., Kumar, V., & Joshi, H. D. (2019). A novel computer vision based neutrosophic approach for leaf disease identification and classification. *Measurement: Journal of the International Measurement Confederation*, 135, 782–794. <https://doi.org/10.1016/j.measurement.2018.12.027>
- Dogo, E. M., Afolabi, O. J., Nwulu, N. I., Twala, B., & Aigbavboa, C. O. (2018). A Comparative Analysis of Gradient Descent-Based Optimization Algorithms on Convolutional Neural Networks. *Proceedings of the International Conference on Computational Techniques, Electronics and Mechanical Systems, CTEMS 2018, June 2019*, 92–99. <https://doi.org/10.1109/CTEMS.2018.8769211>
- Elgendi, M. (2019a). *Deep Learning for Vision Systems* (MEAP Editi). Manning Publications.
- Elgendi, M. (2019b). *Deep Learning for Vision Systems*.
- Geetharamani, G., & J., A. P. (2019). Identification of plant leaf diseases using a nine-layer deep convolutional neural network. *Computers and Electrical Engineering*, 76, 323–338. <https://doi.org/10.1016/j.compeleceng.2019.04.011>
- Guo, Y., Liu, Y., Oerlemans, A., Lao, S., Wu, S., & Lew, M. S. (2016). Deep learning for visual understanding: A review. *Neurocomputing*, 187, 27–48. <https://doi.org/10.1016/j.neucom.2015.09.116>
- H, A. M. (2015). Manfaat Buah Apel ( Malus domestica ) untuk Pencegahan Stroke pada Pasien Benefits of Apples ( Malus domestica ) for Stroke Prevention in Patients with. *Fakultas Kedokteran, Universitas Lampung*.
- He, K., Zhang, X., Ren, S., & Sun, J. (2016). Deep residual learning for image

- recognition. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 2016-Decem, 770–778. <https://doi.org/10.1109/CVPR.2016.90>
- Hughes, D. P., & Salathe, M. (2015). An open access repository of images on plant health to enable the development of mobile disease diagnostics. <http://arxiv.org/abs/1511.08060>
- Ioffe, S., & Szegedy, C. (2015). Batch normalization: Accelerating deep network training by reducing internal covariate shift. *32nd International Conference on Machine Learning, ICML 2015*, 1, 448–456.
- Ji, M., Zhang, L., & Wu, Q. (2019). Automatic Grape Leaf Diseases Identification via UnitedModel Based on Multiple Convolutional Neural Networks. *INFORMATION PROCESSING IN AGRICULTURE*. <https://doi.org/10.1016/j.inpa.2019.10.003>
- Jiang, P., Chen, Y., Liu, B., He, D., & Liang, C. (2019). Real-Time Detection of Apple Leaf Diseases Using Deep Learning Approach Based on Improved Convolutional Neural Networks. *IEEE Access*, 7, 59069–59080. <https://doi.org/10.1109/ACCESS.2019.2914929>
- Jumeilah, F. S. (2018). Klasifikasi Opini Masyarakat Terhadap Jasa Ekspedisi JNE dengan Naïve Bayes. *Jurnal Sistem Informasi Bisnis*, 8(1), 92. <https://doi.org/10.21456/vol8iss1pp92-98>
- Kim, D. H., & MacKinnon, T. (2018). Artificial intelligence in fracture detection: transfer learning from deep convolutional neural networks. *Clinical Radiology*, 73(5), 439–445. <https://doi.org/10.1016/j.crad.2017.11.015>
- Krisnandi, D., Pardede, H. F., Yuwana, R. S., Zilvan, V., Heryana, A., Fauziah, F., & Rahadi, V. P. (2019). Diseases Classification for Tea Plant Using Concatenated Convolution Neural Network. *CommIT (Communication & Information Technology) Journal* 13(2), 13(2), 67–77.
- Kusumo, B. S., Heryana, A., Mahendra, O., & Pardede, H. F. (2019). Machine Learning-based for Automatic Detection of Corn-Plant Diseases Using Image Processing. *2018 International Conference on Computer, Control, Informatics and Its Applications: Recent Challenges in Machine Learning for Computing Applications, IC3INA 2018 - Proceeding*, 93–97. <https://doi.org/10.1109/IC3INA.2018.8629507>
- Liu, B., Zhang, Y., He, D. J., & Li, Y. (2018). Identification of apple leaf diseases based on deep convolutional neural networks. *Symmetry*, 10(1). <https://doi.org/10.3390/sym10010011>
- Liu, G., Shih, K. J., Wang, T.-C., Reda, F. A., Sapra, K., Yu, Z., Tao, A., & Catanzaro, B. (2018). Partial Convolution based Padding. <http://arxiv.org/abs/1811.11718>
- Liu, T., Fang, S., Zhao, Y., Wang, P., & Zhang, J. (2015). Implementation of Training Convolutional Neural Networks. <http://arxiv.org/abs/1506.01195>
- Luo, P., Zhang, R., Ren, J., Peng, Z., & Li, J. (2019). Switchable Normalization for

- Learning-to-Normalize Deep Representation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, July, 1–1. <https://doi.org/10.1109/tpami.2019.2932062>
- Mahmud, K. H., Adiwijaya, & Faraby, S. Al. (2019). Klasifikasi Citra Multi-Kelas Menggunakan Convolutional Neural Network. *E-Proceeding of Engineering*, 6(1), 2127–2136.
- Minar, M. R., & Naher, J. (2018). *Recent Advances in Deep Learning: An Overview*. February. <https://doi.org/10.13140/RG.2.2.24831.10403>
- Moghbelli, H., Ellithy, K., Eslami, Z., Vartanian, R., Wannous, D., El Ghamrawy, A., Basha, O., Fayad, A., Qaraqe, M., Nicola, S., Damásio, January, R.-, By, U., Sprott, D., Banking, P., Accountholders, B. B., Draft, D., Details, B., Name, F., ... Nathan, G. J. (2020). The Plant Pathology 2020 challenge dataset to classify foliar disease of apples. *Block Caving – A Viable Alternative?*, 21(1), 1–9. <https://doi.org/10.1016/j.solener.2019.02.027>
- Mohtar, I. A., Ramli, N. S. S., & Ahmad, Z. (2019). Automatic classification of mangosteen ripening stages using deep learning. *Proceedings - 2019 1st International Conference on Artificial Intelligence and Data Sciences, AiDAS 2019*, 44–47. <https://doi.org/10.1109/AiDAS47888.2019.8970933>
- Nwankpa, C., Ijomah, W., Gachagan, A., & Marshall, S. (2018). *Activation Functions: Comparison of trends in Practice and Research for Deep Learning*. 1–20.
- O’Shea, K., & Nash, R. (2015). *An Introduction to Convolutional Neural Networks*. November. <http://arxiv.org/abs/1511.08458>
- Pardede, J., Dewi, I. A., Fadilah, R., & Triyani, Y. (2020). Automated malaria diagnosis using object detection retina-net based on thin blood smear image. *Journal of Theoretical and Applied Information Technology*, 98(5), 757–767.
- Ponakala, R. (2013). Testing Deep Neural Networks for Classification Tasks Through Adversarial Perturbations on Test Datasets. *Journal of Petrology*, 369(1), 1689–1699. <https://doi.org/10.1017/CBO9781107415324.004>
- Putra, J. W. G. (2019). *Pengenalan Konsep Pembelajaran Mesin dan Deep Learning*. March 2018, 1–235.
- Ramesh, S., & Vydeki, D. (2019). Recognition and classification of paddy leaf diseases using Optimized Deep Neural network with Jaya algorithm. *Information Processing in Agriculture*, xxxx. <https://doi.org/10.1016/j.inpa.2019.09.002>
- Russakovsky, O., Deng, J., Su, H., Krause, J., Satheesh, S., Ma, S., Huang, Z., Karpathy, A., Khosla, A., Bernstein, M., Berg, A. C., & Fei-Fei, L. (2015). ImageNet Large Scale Visual Recognition Challenge. *International Journal of Computer Vision*, 115(3), 211–252. <https://doi.org/10.1007/s11263-015-0816-y>
- Savalia, S., & Emamian, V. (2018). Cardiac arrhythmia classification by multi-layer perceptron and convolution neural networks. *Bioengineering*, 5(2).

- <https://doi.org/10.3390/bioengineering5020035>
- Simonyan, K., & Zisserman, A. (2015). Very deep convolutional networks for large-scale image recognition. *3rd International Conference on Learning Representations, ICLR 2015 - Conference Track Proceedings*, 1–14.
- Smith, L. N. (2018). *A disciplined approach to neural network hyper-parameters: Part 1 -- learning rate, batch size, momentum, and weight decay*. 1–21. <http://arxiv.org/abs/1803.09820>
- Sokolova, M., & Lapalme, G. (2009). A systematic analysis of performance measures for classification tasks. *Information Processing and Management*, 45(4), 427–437. <https://doi.org/10.1016/j.ipm.2009.03.002>
- Suresh, C., Singh, S., Saini, R., & Saini, A. K. (2013). A Comparative Analysis of Image Scaling Algorithms. *International Journal of Image, Graphics and Signal Processing*, 5(5), 55–62. <https://doi.org/10.5815/ijigsp.2013.05.07>
- Suryawati, E., Sustika, R., Yuwana, R. S., Subekti, A., & Pardede, H. F. (2019). Deep structured convolutional neural network for tomato diseases detection. *2018 International Conference on Advanced Computer Science and Information Systems, ICACSIS 2018*, 385–390. <https://doi.org/10.1109/ICACSIS.2018.8618169>
- Talo, M., Yildirim, O., Baloglu, U. B., Aydin, G., & Acharya, U. R. (2019a). Convolutional neural networks for multi-class brain disease detection using MRI images. *Computerized Medical Imaging and Graphics*, 78, 101673. <https://doi.org/10.1016/j.compmedimag.2019.101673>
- Talo, M., Yildirim, O., Baloglu, U. B., Aydin, G., & Acharya, U. R. (2019b). Convolutional neural networks for multi-class brain disease detection using MRI images. *Computerized Medical Imaging and Graphics*, 78, 101673. <https://doi.org/10.1016/j.compmedimag.2019.101673>
- Wicaksono, G., Andryana, S., & -, B. (2020). Aplikasi Pendekripsi Penyakit Pada Daun Tanaman Apel Dengan Metode Convolutional Neural Network. *JOINTECS (Journal of Information Technology and Computer Science)*, 5(1), 9. <https://doi.org/10.31328/jointecs.v5i1.1221>
- Yu, Fisher, Vladlen Koltun, and T. F. (2017). Segmentation Dilated Residual Networks. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 472–480. [http://openaccess.thecvf.com/content\\_cvpr\\_2017/papers/Yu\\_Dilated\\_Residual\\_Networks\\_CVPR\\_2017\\_paper.pdf](http://openaccess.thecvf.com/content_cvpr_2017/papers/Yu_Dilated_Residual_Networks_CVPR_2017_paper.pdf) [http://openaccess.thecvf.com/content\\_cvpr\\_2017/html/Yu\\_Dilated\\_Residual\\_Networks\\_CVPR\\_2017\\_paper.html](http://openaccess.thecvf.com/content_cvpr_2017/html/Yu_Dilated_Residual_Networks_CVPR_2017_paper.html)
- Yu, F., Koltun, V., & Funkhouser, T. (2017). Dilated residual networks. *Proceedings - 30th IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2017*, 2017-Janua, 636–644. <https://doi.org/10.1109/CVPR.2017.75>
- Yu, H.-J., & Son, C.-H. (2019). *Apple Leaf Disease Identification through Region-*

- of-Interest-Aware Deep Convolutional Neural Network.* 1–13.  
<http://arxiv.org/abs/1903.10356>
- Zhang, S., Huang, W., & Zhang, C. (2019). Three-channel convolutional neural networks for vegetable leaf disease recognition. *Cognitive Systems Research*, 53, 31–41. <https://doi.org/10.1016/j.cogsys.2018.04.006>
- Zhong, Y., & Zhao, M. (2020). Research on deep learning in apple leaf disease recognition. *Computers and Electronics in Agriculture*, 168(October 2019), 105146. <https://doi.org/10.1016/j.compag.2019.105146>

