

DAFTAR PUSTAKA

- Alkurdi, D. A., Cevik, M., & Akgundogdu, A. (2024). Advancing Deepfake Detection Using Xception Architecture: A Robust Approach for Safeguarding Against Fabricated News on Social Media. *Computers, Materials and Continua*, *81*(3), 4285–4305. <https://doi.org/10.32604/cmc.2024.057029>
- Alzubaidi, L., Zhang, J., Humaidi, A. J., Al-Dujaili, A., Duan, Y., Al-Shamma, O., Santamaría, J., Fadhel, M. A., Al-Amidie, M., & Farhan, L. (2021). Review of Deep Learning: Concepts, CNN Architectures, Challenges, Applications, Future Directions. *Journal of Big Data*, *8*(1). <https://doi.org/10.1186/s40537-021-00444-8>
- Abhinowo, A. A., Isnanto, R. R., & Eridani, D. (2023). Pemilihan Model Terbaik Algoritma Convolutional Neural Network untuk Klasifikasi Jenis Bencana Alam. *Jurnal Teknik Komputer*, *1*(4), 199–208. <https://doi.org/10.14710/jtk.v1i4.37656>
- Bakhashwain, N., & Sagheer, A. (2020). Online Tuning of Hyperparameters in Deep LSTM for Time Series Applications. *International Journal of Intelligent Engineering and Systems*, *14*(1), 212–220. <https://doi.org/10.22266/IJIES2021.0228.21>
- Brianorman, Y., & Munir, R. (2023). Perbandingan Pre-Trained CNN: Klasifikasi Pengenalan Bahasa Isyarat Huruf Hijaiyah. *J. Sistem Info. Bisnis*, *13*(1), 52–59. <https://doi.org/10.21456/vol13iss1pp52-59>
- Nababan, E. B., & Zarlis, M. (2015). Analisis Fungsi Aktivasi Sigmoid Biner dan Sigmoid Bipolar dalam Algoritma Backpropagation pada Prediksi Kemampuan Siswa. *Jurnal Teknovasi*, *2*(1).
- Casella, B., Esposito, R., Sciarappa, A., Cavazzoni, C., & Aldinucci, M. (2024). Experimenting with Normalization Layers in Federated Learning on Non-IID Scenarios. *IEEE Access*, *12*, 47961–47971. <https://doi.org/10.1109/ACCESS.2024.3383783>
- Chen, C., Mat Isa, N. A., & Liu, X. (2025). A Review of Convolutional Neural Network Based Methods for Medical Image Classification. *Computers in Biology and Medicine* (Vol. 185). Elsevier Ltd. <https://doi.org/10.1016/j.compbimed.2024.109507>
- Chen, S., Cao, Y., Kang, Y., Li, P., & Sun, B. (2021). Deep Feature Representation Based Imitation Learning for Autonomous Helicopter Aerobatics. *IEEE Transactions on Artificial Intelligence*, *2*(5), 437–446. <https://doi.org/10.1109/TAI.2021.3053511>

- Chen, W., Yang, K., Yu, Z., Shi, Y., & Chen, C. L. P. (2024). A Survey on Imbalanced Learning: Latest Research, Applications and Future Directions. *Artificial Intelligence Review*, 57(6). <https://doi.org/10.1007/s10462-024-10759-6>
- Chollet, F. (2021). *Deep learning with Python* (2nd ed.). Manning Publications.
- Chollet, F. (2017). Xception: Deep Learning with Depthwise Separable Convolutions. *Proceedings - 30th IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2017, 2017-January*, 1800–1807. <https://doi.org/10.1109/CVPR.2017.195>
- Coccomini, D., Messina, N., Gennaro, C., & Falchi, F. (2021). *Combining EfficientNet and Vision Transformers for Video Deepfake Detection*. https://doi.org/10.1007/978-3-031-06433-3_19
- Dagal, I., Tanriöven, K., Nayir, A., & Akın, B. (2025). Adaptive Stochastic Gradient Descent (SGD) for Erratic Datasets. *Future Generation Computer Systems*, 166. <https://doi.org/10.1016/j.future.2024.107682>
- Deekshith, P., & Singh, R. P. (2020). Review on Advanced Machine Learning Model: Scikit-learn. *International Journal of Scientific Research and Engineering Development*, 3(4), 526–529. SSRN. <https://ssrn.com/abstract=3694350>
- Dehbozorgi, P., Ryabchykov, O., & Bocklitz, T. (2023). A Systematic Investigation of Image Preprocessing on Image Classification. *IEEE Access*, 11, 44795–44807. <https://doi.org/10.1109/ACCESS.2024.3395063>
- Dijaya, R. (2023). *Buku Ajar Pengolahan Citra Digital*. UMSIDA Press
- Elngar, A. A., Arafa, M., Fathy, A., Moustafa, B., Mahmoud, O., Shaban, M., & Fawzy, N. (2021). Image Classification Based On CNN: A Survey. *Journal of Cybersecurity and Information Management (JCIM)*, 6(1), 18. <https://doi.org/10.5281/zenodo.4897990>
- Elpeltagy, M., Ismail, A., Zaki, M. S., & Eldahshan, K. (2023). A Novel Smart Deepfake Video Detection System. *International Journal of Advanced Computer Science and Applications*, 14(1), 407–419. <https://doi.org/10.14569/IJACSA.2023.0140144>
- Erbani, J., Portier, P. É., Egyed-Zsigmond, E., & Nurbakova, D. (2024). Confusion Matrices: A Unified Theory. *IEEE Access*. <https://doi.org/10.1109/ACCESS.2024.3507199>
- Erickson, B. J., Korfiatis, P., Akkus, Z., Kline, T., & Philbrick, K. (2017). Toolkits and Libraries for Deep Learning. *Journal of Digital Imaging*, 30(4), 400–405. <https://doi.org/10.1007/s10278-017-9965-6>

- Gambín, Á. F., Yazidi, A., Vasilakos, A., Haugerud, H., & Djenouri, Y. (2024). Deepfakes: Current and Future Trends. *Artificial Intelligence Review*, 57(3). <https://doi.org/10.1007/s10462-023-10679-x>
- Ganguly, S., Ganguly, A., Mohiuddin, S., Malakar, S., & Sarkar, R. (2022). ViXNet: Vision Transformer with Xception Network for Deepfakes Based Video and Image Forgery Detection. *Expert Systems with Applications*, 210. <https://doi.org/10.1016/j.eswa.2022.118423>
- Goodfellow, I., Pouget-Abadie, J., Mirza, M., Xu, B., Warde-Farley, D., Ozair, S., Courville, A., & Bengio, Y. (2020). Generative Adversarial Networks. *Communications of the ACM*, 63(11), 139–144. <https://doi.org/10.1145/3422622>
- Harris, C. R., Millman, K. J., van der Walt, S. J., Gommers, R., Virtanen, P., Cournapeau, D., Wieser, E., Taylor, J., Berg, S., Smith, N. J., Kern, R., Picus, M., Hoyer, S., van Kerkwijk, M. H., Brett, M., Haldane, A., del Río, J. F., Wiebe, M., Peterson, P., ... Oliphant, T. E. (2020). Array Programming with NumPy. *Nature*, 585(7825), 357–362. <https://doi.org/10.1038/s41586-020-2649-2>
- Hasan, M. A., Haque, F., Roy, T., Islam, M., Nahiduzzaman, M., Hasan, M. M., Ahsan, M., & Haider, J. (2024). Prediction of Fetal Brain Gestational Age using Multihead Attention with Xception. *Computers in Biology and Medicine*, 182. <https://doi.org/10.1016/j.combiomed.2024.109155>
- Hema, V., & Gowri, S. (2024). Autism Detection Using Xception-based CNN with SVM on Resized and Normalized Neuroimaging Data. *SSRG International Journal of Electronics and Communication Engineering*, 11(12), 123–134. <https://doi.org/10.14445/23488549/IJECE-V11I12P112>
- Huang, M. L., & Liao, Y. C. (2022). A Lightweight CNN-Based Network on COVID-19 Detection Using X-ray and CT Images. *Computers in Biology and Medicine*, 146. <https://doi.org/10.1016/j.combiomed.2022.105604>
- Iqbal, F., Abbasi, A., Javed, A. R., Almadhor, A., Jalil, Z., Anwar, S., & Rida, I. (2024). Data Augmentation-based Novel Deep Learning Method for Deepfaked Images Detection. *ACM Transactions on Multimedia Computing, Communications, and Applications*. <https://doi.org/10.1145/3592615>
- Jie, H. J., & Wanda, P. (2020). Runpool: A Dynamic Pooling Layer for Convolution Neural Network. *International Journal of Computational Intelligence Systems*, 13(1), 66–76. <https://doi.org/10.2991/ijcis.d.200120.002>

- Joshi, P., & Nivethitha, V. (2024). Deep Fake Image Detection using Xception Architecture. *5th International Conference on Recent Trends in Computer Science and Technology, ICRTCST 2024 - Proceedings*, 533–537. <https://doi.org/10.1109/ICRTCST61793.2024.10578398>
- Kaur, A., Noori Hoshyar, A., Saikrishna, V., Firmin, S., & Xia, F. (2024). Deepfake Video Detection: Challenges and Opportunities. *Artificial Intelligence Review*, 57(6). <https://doi.org/10.1007/s10462-024-10810-6>
- Kim, J., Han, S., & S. Woo, S. (2019). *Classifying Genuine Face images from Disguised Face Images*. <https://doi.org/10.1109/BigData47090.2019.9005683>.
- Kumar, T., Mileo, A., Brennan, R., & Bendeche, M. (2023). *Image Data Augmentation Approaches: A Comprehensive Survey and Future directions*. <http://arxiv.org/abs/2301.02830>
- Ledig, C., Theis, L., Huszar, F., Caballero, J., Cunningham, A., Acosta, A., Aitken, A., Tejani, A., Totz, J., Wang, Z., & Shi, W. (2017). *Photo-Realistic Single Image Super-Resolution Using a Generative Adversarial Network*. <http://arxiv.org/abs/1609.04802>
- Li, S., Qu, H., Dong, X., Dang, B., Zang, H., & Gong, Y. (2024). *Leveraging Deep Learning and Xception Architecture for High-Accuracy MRI Classification in Alzheimer Diagnosis*. <http://arxiv.org/abs/2403.16212>
- Lin, M., Chen, Q., & Yan, S. (2013). *Network In Network*. <http://arxiv.org/abs/1312.4400>
- Liu, Y., Yang, Z., Yu, Z., Liu, Z., Liu, D., Lin, H., Li, M., Ma, S., Avdeev, M., & Shi, S. (2023). Generative Artificial Intelligence and Its Applications in Materials Science: Current Situation and Future Perspectives. *Journal of Materiomics*, 9(4), 798-816. <https://doi.org/10.1016/j.jmat.2023.05.001>
- Lo, W. W., Yang, X., & Wang, Y. (2019). *2019 9th IFIP International Conference on New Technologies, Mobility & Security: proceedings of NTMS 2019 Conference and Workshop: 24-26 June 2019, Canary Islands - Spain*. IEEE.
- Lu, D., & Weng, Q. (2007). A Survey of Image Classification Methods and Techniques for Improving Classification Performance. *International Journal of Remote Sensing*, 28(5), 823-870. <https://doi.org/10.1080/01431160600746456>
- Mahamat, Moussa., Adeshina, S. A., & Arreytambe, Tabot. (2014). *Proceedings of the 11th International Conference on Electronics, Computer and Computation (ICECCO'14): International Conference, September 29-October 1, 2014: Abuja, Nigeria*. IEEE.

- Menglin, L., Qiang, X., Peng, Z., Dahua, Z., Lizhi, H., & Baiji, H. (2024). Encrypted Traffic Identification in Power IoT based on CNN with Batch Normalization. *Proceedings - 2024 6th International Conference on Electrical Engineering and Control Technologies, CEECT 2024*, 136–142. <https://doi.org/10.1109/CEECT63656.2024.10898407>
- Mittal, A., Moorthy, A. K., & Bovik, A. C. (2012). No-Reference Image Quality Assessment in the Spatial Domain. *IEEE Transactions on Image Processing*, 21(12), 4695–4708. <https://doi.org/10.1109/TIP.2012.2214050>
- Mukta, M. S. H., Ahmad, J., Raiaan, M. A. K., Islam, S., Azam, S., Ali, M. E., & Jonkman, M. (2023). An Investigation of the Effectiveness of Deepfake Models and Tools. *Journal of Sensor and Actuator Networks*, 12(4). <https://doi.org/10.3390/jsan12040061>
- Murel, J. (2024). *What is data augmentation?* IBM. <https://www.ibm.com/id-id/topics/data-augmentation>
- Martínez, O. N., García, D. F., Monteagudo, N. C., & Rincón, O. F. (2024). Possible Health Benefits and Risks of DeepFake Videos: A Qualitative Study in Nursing Students. *Nursing Reports*, 14(4), 2746–2757. <https://doi.org/10.3390/nursrep14040203>
- O’Shea, K., & Nash, R. (2015). *An Introduction to Convolutional Neural Networks*. <http://arxiv.org/abs/1511.08458>
- Pan, D., Sun, L., Wang, R., Zhang, X., & Sinnott, R. O. (2020). Deepfake Detection through Deep Learning. *Proceedings - 2020 IEEE/ACM International Conference on Big Data Computing, Applications and Technologies, BDCAT 2020*, 134–143. <https://doi.org/10.1109/BDCAT50828.2020.00001>
- Patricia, N., & Caputo, B. (2014). Learning to Learn, from Transfer Learning to Domain Adaptation: A Unifying Perspective. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, 1442–1449. <https://doi.org/10.1109/CVPR.2014.187>
- Petersen, M. E., De Ridder, D., & Handels, H. (2002). Image Processing with Neural Networks-A Review. *Pattern Recognition*, 35(10), 2279–2301. [https://doi.org/10.1016/S0031-3203\(01\)00178-9](https://doi.org/10.1016/S0031-3203(01)00178-9)
- Pulli, K., Baksheev, A., Korniyakov, K., & Eruhimov, V. (2012). Real-Time Computer Vision with OpenCV. *Communications of the ACM*, 55(6), 61–69. <https://doi.org/10.1145/2184319.2184337>

- Rainio, O., Teuhon, J., & Klén, R. (2024). Evaluation Metrics and Statistical Tests for Machine Learning. *Scientific Reports*, *14*(1). <https://doi.org/10.1038/s41598-024-56706-x>
- Rana, M. S., Nobi, M. N., Murali, B., & Sung, A. H. (2022). Deepfake Detection: A Systematic Literature Review. *IEEE Access*, *10*, 25494-25513. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ACCESS.2022.3154404>
- Reyad, M., Sarhan, A. M., & Arafa, M. (2023). A Modified Adam Algorithm for Deep Neural Network Optimization. *Neural Computing and Applications*, *35*(23), 17095–17112. <https://doi.org/10.1007/s00521-023-08568-z>
- Rofiq, N., & Sitio, S. L. M. (2024). *Pengenalan Dasar Analisis Data dengan Python di Google Colab*. Eureka Media Aksara
- Saxena, A., Yadav, D., Gupta, M., Phulre, S., Arjariya, T., Jaiswal, V., & Bhujade, R. K. (2023). Detecting Deepfakes: A Novel Framework Employing XceptionNet-Based Convolutional Neural Networks. *Traitement du Signal*, *40*(3), 835–846. <https://doi.org/10.18280/ts.400301>
- Sengupta, P., Mehta, A., & Rana, P. S. (2023). Enhancing Performance of Deep Learning Models with a Novel Data Augmentation Approach. *2023 14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023*. <https://doi.org/10.1109/ICCCNT56998.2023.10308298>
- Shavit, H., Jatelnicki, F., Mor-Puigventós, P., & Kowalczyk, W. (2022). *From Xception to NEXception: New Design Decisions and Neural Architecture Search*. <http://arxiv.org/abs/2212.08448>
- Spitz, A. (2024). “It Wasn’t Me”: Rethinking The Right of Publicity in The Context of AI-Generated Content. Boston College Intellectual Property and Technology Forum, 2024, 1–16.
- Srivastava, N., Hinton, G., Krizhevsky, A., & Salakhutdinov, R. (2014). Dropout: A Simple Way to Prevent Neural Networks from Overfitting. *Journal of Machine Learning Research*, *15*, 1929-1958 .
- Svozil, D., Kvasnieka, V., & Pospichal, J. (1997). Chemometrics and Intelligent Laboratory Systems Introduction to Multi Layer Feed Forward Neural Networks. *Chemometrics and Intelligent Laboratory Systems*, *39*(1), 43–62. [https://doi.org/10.1016/S0169-7439\(97\)00061-0](https://doi.org/10.1016/S0169-7439(97)00061-0)
- Khoei, T. T., Slimane, H. O., & Kaabouch, N. (2023). Deep Learning: Systematic Review, Models, Challenges, and Research Directions. *Neural Computing and Applications*, *35*(31), 23103-23124. <https://doi.org/10.1007/s00521-023-08957-4>

- Tang, X., Li, X., Ding, Y., Song, M., & Bu, Y. (2020). The Pace of Artificial Intelligence Innovations: Speed, Talent, and Trial-and-Error. *Journal of Informetrics*, 14(4). <https://doi.org/10.1016/j.joi.2020.101094>
- Terven, J., Cordova-Esparza, D. M., Ramirez-Pedraza, A., Chavez-Urbiola, E. A., & Romero-Gonzalez, J. A. (2023). *Loss Functions and Metrics in Deep Learning*. <http://arxiv.org/abs/2307.02694>
- Wang, Z., Wang, P., Liu, K., Wang, P., Fu, Y., Lu, C.-T., Aggarwal, C. C., Pei, J., & Zhou, Y. (2024). *A Comprehensive Survey on Data Augmentation*. <http://arxiv.org/abs/2405.09591>
- Westerlund, M. (2019). *The Emergence of Deepfake Technology: A Review*. *Technology Innovation Management Review*, 9(11), 40–53. <https://doi.org/10.22215/timreview/1282>
- Wibawa, M. S. (2016). Pengaruh Fungsi Aktivasi, Optimisasi dan Jumlah Epoch Terhadap Performa Jaringan Saraf Tiruan. *Jurnal Sistem dan Informatika*, 11(2), 167–174. <https://doi.org/10.13140/RG.2.2.21139.94241>
- Wodajo, D., & Atnafu, S. (2021). *Deepfake Video Detection Using Convolutional Vision Transformer*. <http://arxiv.org/abs/2102.11126>
- Wu, X., Liu, R., Yang, H., & Chen, Z. (2020). An Xception Based Convolutional Neural Network for Scene Image Classification with Transfer Learning. *Proceedings - 2020 2nd International Conference on Information Technology and Computer Application, ITCA 2020*, 262–267. <https://doi.org/10.1109/ITCA52113.2020.00063>
- Younesi, A., Ansari, M., Fazli, M., Ejlali, A., Shafique, M., & Henkel, J. (2024). A Comprehensive Survey of Convolutions in Deep Learning: Applications, Challenges, and Future Trends. *IEEE Access*, 12, 41180–41218. <https://doi.org/10.1109/ACCESS.2024.3376441>
- Zhao, X., Wang, L., Zhang, Y., Han, X., Deveci, M., & Parmar, M. (2024). A Review of Convolutional Neural Networks in Computer Vision. *Artificial Intelligence Review*, 57(4). <https://doi.org/10.1007/s10462-024-10721-6>
- Zhuang, F., Qi, Z., Duan, K., Xi, D., Zhu, Y., Zhu, H., Xiong, H., & He, Q. (2021). A Comprehensive Survey on Transfer Learning. *Proceedings of the IEEE*, 109(1), 43-76. <https://doi.org/10.1109/JPROC.2020.3004555>