

## DAFTAR PUSTAKA

- Ali, S., Li, J., Pei, Y., Aslam, M.S., Zeeshan, S. and Azeem, M., 2020. An Effective and Improved CNN-ELM Classifier for Handwritten Digits Recognition and Classification. *Symmetry*, 12.
- Andika, L.A., Pratiwi, H. and Handajani, S.S., 2019. KLASIFIKASI PENYAKIT PNEUMONIA MENGGUNAKAN METODE CONVOLUTIONAL NEURAL NETWORK DENGAN OPTIMASI ADAPTIVE MOMENTUM \*. *Indonesian Journal of Statistics and Its Applications*, 3(3), pp.331–340.
- Ayumi, V., Rere, L.M.R., Fanany, M.I. and Arymurthy, A.M., 2016. Optimization of Convolutional Neural Network using Microcanonical Annealing Algorithm. *ICACISIS*.
- Biswas, A. and Islam, Md.S., 2021. An Efficient CNN Model for Automated Digital Handwritten Digit Classification. *Journal of Information Systems Engineering and Business Intelligence*, 7(1), p.42. <https://doi.org/10.20473/jisebi.7.1.42-55>.
- Boyko, N., Basytiuk, O. and Shakhovaska, N., 2018. Performance Evaluation and Comparison of Software for Face Recognition, Based on Dlib and Opencv Library. Lviv: The Institute of Electrical and Electronics Engineering.
- Chen, L., Li, S., Bai, Q., Yang, J., Jiang, S. and Miao, Y., 2021. Review of Image Classification Algorithms Based on Convolutional Neural Networks. *MDPI - Remote Sensing*, 13(22).
- Crammer, K. and Singer, Y., 2002. On the Algorithmic Implementation of Multiclass Kernel-based Vector Machines. *Journal of Machine Learning Research*, pp.265–292.
- Dubey, S.R., Chakraborty, S., Roy, S.K., Mukherjee, S., Singh, S.K. and Chaudhuri, B.B., 2020. DiffGrad: An Optimization Method for Convolutional Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*, 31(11), pp.4500–4511. <https://doi.org/10.1109/TNNLS.2019.2955777>.

- Duchi, J., Hazan, elda and Singer, Y., 2011. Adaptive subgradient methods for online learning and stochastic. *Journal of Machine Learning Research*, pp.2121–2159.
- Fawwaz, M.A.A., Ramadhani. Kurniawan Nur and Sthevanie, F., 2021. Klasifikasi Ras pada Kucing menggunakan Algoritma Convolutional Neural Network (CNN). *e-Proceeding of Engineering*, 8(1).
- Fukushima, K., 1980. *Neocognitron: A Self-Organizing Neural Network Model for a Mechanism of Pattern Recognition Unaffected by Shift in Position*.
- Haridas, R. and L, J.R., 2019. Convolutional Neural Networks: A Comprehensive Survey. *International Journal of Applied Engineering Research*.
- Hartmann, M.J. and Carleo, G., 2019. Neural Network Approach to Dissipative Quantum Many Body. *Quantum Physics*, pp.250–502.
- Hoseini, F., Shahbahrani, A. and Bayat, P., 2019. AdaptAhead Optimization Algorithm for Learning Deep CNN Applied to MRI Segmentation. *Journal of Digital Imaging*, 32(1), pp.105–115. <https://doi.org/10.1007/s10278-018-0107-6>.
- JC-PROGJAVA, 2020. *Handwritten Digits Dataset (not in MNIST)*.
- Jyothula, S., 2020. A Heuristic Review on Analog Performance and Accomplishment of Activation Functions at RTL Level. *IOP Conf. Series: Materials Science and Engineering*.
- Kabir, H.D., Abdar, M. and Jalali, S.M.J., 2020. SpinalNet: Deep Neural Network with Gradual Input. *Computer Vision and Pattern Recognition*.
- Kadam, S.S., Adamuthe, A.C. and Patil, A.B., 2020. CNN Model for Image Classification on MNIST and Fashion-MNIST Dataset. *Journal of scientific research*, 64(02), pp.374–384. <https://doi.org/10.37398/jsr.2020.640251>.
- LeCun, Y., Bottou, L., Bengio, Y. and Haffner, P., 1998. *Gradient-based learning applied to document recognition*. Proceedings of the IEEE.
- Lee, S., Kim, J., Kang, H., Kang, D.Y. and Park, J., 2021. Genetic algorithm based deep learning neural network structure and hyperparameter optimization. *Applied Sciences (Switzerland)*, 11(2), pp.1–12. <https://doi.org/10.3390/app11020744>.

- Lydia, A. and Francis, S., 2019. Adagrad - An Optimizer for Stochastic Gradient. *International Journal of Information and Computing Science*, 6(5).
- O, S.K. and Nash, R., 2015. An Introduction to Convolutional Neural Networks. *Neural and Evolutionary Computing*.
- Pennington, J., Socher, R. and Manning, C., 2014. Glove: Global Vectors for Word Representation. In: *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Doha, Qatar: Association for Computational Linguistics. pp.1532–1543.
- Prilianti, K.R., Brotosudarmo, T.H.P., Anam, S. and Suryanto, A., 2019. Performance comparison of the convolutional neural network optimizer for photosynthetic pigments prediction on plant digital image. *AIP Conference Proceedings*, 2084. <https://doi.org/10.1063/1.5094284>.
- Pyo, K.Y., Lee, D., Cho, H., Kang, K., Lee, D. and Lim, H., 2018. Research Trend analysis for Construction Automation. Berlin: Research Trend analysis for Construction Automation.
- Sakhavi, S., Guan, C. and Yan, S., 2018. Learning Temporal Information for Brain-Computer Interface Using Convolutional Neural Networks. *IEEE Transactions on Neural Networks and Learning Systems*.
- Salameh, W. and Surakhi, O., 2020. AN OPTIMIZED CONVOLUTIONAL NEURAL NETWORK FOR HANDWRITTEN DIGITAL RECOGNITION CLASSIFICATION. *Journal of Theoretical and Applied Information Technology*, [online] 15(21). Available at: <[www.jatit.org](http://www.jatit.org)>.
- Santosa, A. and Ariyanto, G., 2018. Implementasi Deep Learning Berbasis Keras untuk Pengenalan Wajah. *Jurnal Teknik Elektro*, 18(01).
- Shwartz, S.S. and David, S. ben, 2014. *Understanding Machine Learning from Theory to Algorithms*. New York: Cambridge University Press.
- Sriyati, Setyanto, A. and Luthfi, E.T., 2020. Literature Review: Pengenalan Wajah Menggunakan Algoritma Convolutional Neural Network. *Jurnal TIKomSIN*, 8(2).
- Stathakis, D., 2008. *How Many Hidden Layers And Nodes?*, '' *International Journal of Remote Sensing*.

- Suartika, I.W., Wijaya, A.Y. and Soelaiman, R., 2016. Klasifikasi Citra Menggunakan Convolutional Neural Network (Cnn) pada Caltech 101. *JURNAL TEKNIK ITS*, 5.
- Sugiyono, 2011. *Metode Penelitian Kuantitatif, Kualitatif dan R&D*. Bandung: Alfabeta.
- Sugiyono, 2016. *Metode Penelitian Kuantitatif Kualitatif dan R&D*. Bandung: Alfabeta.
- Syulistyo, A.R., Jati Purnomo, D.M., Rachmadi, M.F. and Wibowo, A., 2016. PARTICLE SWARM OPTIMIZATION (PSO) FOR TRAINING OPTIMIZATION ON CONVOLUTIONAL NEURAL NETWORK (CNN). *Jurnal Ilmu Komputer dan Informasi*, 9(1), p.52. <https://doi.org/10.21609/jiki.v9i1.366>.
- Yuliani, E., Aini, A.N. and Khasanah, C.U., 2019. Perbandingan Jumlah Epoch dan Steps per Epoch pada CONvolutional Neural Network untuk Meningkatkan Akurasi dalam Klasifikasi Gambar. *INFORA : Politeknik Indonusa Surakarta*, 5(3).
- Zamora, J.C., Vargas, J.A.C. and Tickoo, O., 2019. ADAPTIVE CONVOLUTIONAL NEURAL NETWORKS. [online] Available at: <<https://github.com/adapconv/adaptive-cnn>>.
- Zhang, N., Lei, D. and Zhao, J.F., 2018. 2018 Chinese Automation Congress (CAC).
- Zschech, P., Sager, C., Siebers, P. and Pertermann, M., 2021. Mit Computer Vision zur automatisierten Qualitätssicherung in der industriellen Fertigung: Eine Fallstudie zur Klassifizierung von Fehlern in Solarzellen mittels Elektrolumineszenz-Bildern. *Mit Computer Vision zur automatisierten Qualitätssicherung in der industriellen Fertigung*, pp.321–342.
- Zufar, M. and Setiyono, B., 2016. Convolutional Neural Networks untuk Pengenalan Wajah Secara Real-Time. *JURNAL SAINS DAN SENI ITS*.