

## DAFTAR PUSTAKA

- Ajit, A., Acharya, K., & Samanta, A. (2020). A Review of Convolutional Neural Networks. *International Conference on Emerging Trends in Information Technology and Engineering*, (pp. 1-5). Vellore.
- Aklani, S. A. (2017). Penerapan Jaringan Syaraf Tiruan Untuk Memprediksi Kunjungan Wisatawan di Propinsi Kepulauan Riau Menggunakan Algoritma Backpropagation. *Seminar Nasional Ikatan Ahli Informatika Indonesia*. Prosiding SISFOTEK.
- Amiripalli, S. S., Rao, G. N., Behara, J., & Krishna, K. S. (2021). Mineral Rock Classification Using Convolutional Neural Network. *Recent Trends in Intensive Computing*, 499 - 505.
- Andono, P. N., Sutojo, T., & Muljono. (2017). *Pengolahan Citra Digital*. Yogyakarta: Penerbit Andi.
- Aprizal, Y., Zainal, R. I., & Afriyudi. (2019). PERBANDINGAN METODE BACKPROPAGATION DAN LEARNING VECTOR QUANTIZATION (LVQ) DALAM MENGGALI POTENSI MAHASISWA BARU DI STMIK PALCOMTECH. *Jurnal Matrik*, 294-301.
- Arrofiqoh, E. N., & Harintaka. (2018). IMPLEMENTASI METODE CONVOLUTIONAL NEURAL NETWORK UNTUK KLASIFIKASI TANAMAN PADA CITRA RESOLUSI TINGGI. *Geomatika*, 61-68.
- Asrafil, A., Paliwang, A., Ridwan, M., Septian, D., Cahyanti, M., Ericks, D., & Swedia, R. (2020). KLASIFIKASI PENYAKIT TANAMAN APEL DARI CITRA DAUN DENGAN CONVOLUTIONAL NEURAL NETWORK. *SEBATIK*, 24(2), 207-212.
- Backar, S. P., Purnawansyah, Darwis, H., & Astuti, W. (2023). Hybrid Fourier Descriptor Naïve Bayes dan CNN pada Klasifikasi Daun Herbal. *Jurnal Informatika: Jurnal pengembangan IT (JPIT)*, 126-133.
- Bera, S., & Shrivastava, V. K. (2019). Analysis of various optimizers on deep convolutional neural network model in the application of hyperspectral remote sensing image classification. *INTERNATIONAL JOURNAL OF REMOTE SENSING*, 2664–2683.
- Breeding, C. M., Shen, A. H., Eaton-Magaña, S., Rossman, G. R., Shigley, J. E., & Gilbertson, A. (2010). DEVELOPMENTS IN GEMSTONE ANALYSIS TECHNIQUES AND INSTRUMENTATION DURING THE 2000S. *GEMS & GEMOLOGY*, 46(3), 241-257.
- C, S., & R, B. (2021). Minerals Classification Using Convolutional Neural Network. *International Research Journal of Engineering and Technology (IRJET)* , 1686-1690.
- Chow, B. H., & Reyes-Aldasoro, C. C. (2022). Automatic Gemstone Classification Using Computer Vision. *Minerals*, 12(60).

- Dong, Y., Wang, J., & Gua, Z. (2018). Research and application of local perceptron neural network in highway rectifier for time series forecasting. *Applied Soft Computing*, 656-673.
- Fadhillah, R., Hasnadevi, I. P., Shabira, D. H., Febrina, N. S., Pravitasari, A. A., & Hendrawati, T. (2022). Klasifikasi Citra Jenis Kendaraan dengan Menggunakan Analisis Convolutional Neural Network (CNN). *E-Journal BIAStatistics*, 166-170.
- Fadhillah, R., Hasnadevi, I. P., Shabira, H., Febrina, N. S., Pravitasari, A. A., & Hendrawati, T. (2023). Klasifikasi Citra Jenis Kendaraan dengan Menggunakan Analisis Convolutional Neural Network (CNN). *E-Journal BIAStatistics / Departemen Statistika FMIPA Universitas Padjadjaran*, 2022(1), 166-170.
- Fauzi Saksenata, A., Minarno, A. E., & Azhar, Y. (2022). Klasifikasi Citra Sel Darah Untuk Penyakit Malaria Dengan Metode CNN. *REPOSITOR*, 4(2), 185-194.
- Feng, J., & Lu, S. (2019). Performance Analysis of Various Activation Functions in Artificial Neural Networks. *Journal of Physics: Conference Series*.
- Fitri, Y. R. (2015). *1001 Aksesori dari Batu Mulia - Ensiklopedi dan Tutorial Craft*. Jakarta: Gramedia Pustaka Utama.
- Freire, W. M., Amaral, A. M., & Costa, Y. M. (2022). Gemstone Classification Using ConvNet with Transfer Learning and Fine-tuning. *2022 29th International Conference on Systems, Signals and Image Processing (IWSSIP)* (pp. 1-4). Sofia, Bulgaria: IEEE.
- Golik, P., Doetsch, P., & Ney, H. (2013). Cross-Entropy vs. Squared Error Training: a Theoretical and Experimental Comparison. *INTERSPEECH*, 1756-1760.
- Gonzalez, R. C., & Woods, R. E. (2008). *Digital Image Processing (3rd ed.)*. Pearson Education.
- Grande, L., & Augustyn, A. (2009). *Gems and Gemstones: Timeless Natural Beauty of the Mineral World*. Chicago: University of Chicago Press.
- Hakim, L., Rizaldi Rahmanto, H., Purnama Kristanto, S., & Yusuf, D. (2023). KLASIFIKASI CITRA MOTIF BATIK BANYUWANGI MENGGUNAKAN CONVOLUTIONAL NEURAL NETWORK. *JURNAL TEKNOINFO*, 17(1), 203-2011.
- Hidayat, D. (2022). KLASIFIKASI JENIS MANGGA BERDASARKAN BENTUK DAN TEKSTUR DAUN MENGGUNAKAN METODE CONVOLUTIONAL NEURAL NETWORK (CNN). *Journal of Information Technology and Computer Science (INTECOMS)*, 5(1), 98-103.
- Ilahiyah, S., & Nilogiri, A. (2018). Implementasi Deep Learning Pada Identifikasi Jenis Tumbuhan Berdasarkan Citra Daun Menggunakan Convolutional Neural Network. *JUSTINDO (Jurnal Sistem & Teknologi Informasi Indonesia)*, 49-56.

- Juliansyah, S., & Laksito, A. D. (2021). Klasifikasi Citra Buah Pir Menggunakan Convolutional Neural Networks. *Jurnal Telekomunikasi dan Komputer*, 11(1), 65-72.
- Julianto, A., Sunyoto, A., & Wibowo, F. W. (2022). OPTIMASI HYPERPARAMETER CONVOLUTIONAL NEURAL NETWORK UNTUK KLASIFIKASI PENYAKIT TANAMAN PADI. *TEKNIMEDIA*, 98-105.
- Karaali, İ., & Eminağaoğlu, M. (2020). A convolutional neural network model for marble quality classification. *SN Applied Sciences*, 2(10).
- Kholik, A. (2021). KLASIFIKASI MENGGUNAKAN CONVOLUTIONAL NEURAL NETWORK (CNN) PADA TANGKAPAN LAYAR HALAMAN INSTAGRAM. *JDMSI*, 10-20.
- Kingma, D. P., & Ba, J. L. (2015). ADAM: A METHOD FOR STOCHASTIC OPTIMIZATION. *International Conference for Learning Representations*, (pp. 1-15). San Diego.
- Kirana, K. C., Wibawanto, S., Hidayah, N., Cahyono, G. P., & Asfani, K. (2019). Improved Neural Network using Integral-RELU based Prevention Activation for Face Detection. *2019 International Conference on Electrical, Electronics and Information Engineering (ICEEIE)* (pp. 260-263). Denpasar: IEEE.
- Krizhevsky, A., Sutskever, I., & Hinton, G. E. (2017). ImageNet Classification with Deep Convolutional Neural Networks. *Advances in Neural Information Processing Systems* 25.
- Lacerda, P., Barros, B., Albuquerque, C., & Conci, A. (2021). Hyperparameter Optimization for COVID-19 Pneumonia Diagnosis Based on Chest CT. *Sensors*, 1-11.
- Lazzarelli, H. N. (2010). *Blue Chart Gem Identification*.
- Liu, Z., Dou, Y., Jiang, J., & Xu, J. (2016). Automatic Code Generation of Convolutional Neural Networks in FPGA Implementation. *International Conference on Field-Programmable Technology (FPT)* (pp. 61-68). Xi'an: IEEE.
- Navale, M., Bikchandani, M., Bhosale, V., Bhosale, P., & Ghadge, S. (2020). DIAMOND QUALITY ASSESSMENT SYSTEM USING MACHINE LEARNING APPROACH . *International Research Journal of Engineering and Technology (IRJET)*, 874-876.
- Nwankpa, C. E. (2020). Advances in Optimisation Algorithms and Techniques for Deep Learning. *ASTES Journal*, 563-577.
- P, I. W., Wijaya, A. Y., & Soelaiman, R. (2016). Klasifikasi Citra Menggunakan Convolutional Neural Network (Cnn) pada Caltech 101 . *JURNAL TEKNIK ITS*, 5(1), 65-69.

- Pumsirirat, A., & Yan, L. (2018). Credit Card Fraud Detection using Deep Learning based on Auto-Encoder and Restricted Boltzmann Machine. (*IJACSA*) *International Journal of Advanced Computer Science and Applications*, 18-25.
- Putra, D. (2010). *Pengolahan Citra Digital*. Yogyakarta: Penerbit Andi.
- Putra, F. S. (2023). Prediksi Harga Batu Mulia/Gemstone Berdasarkan Karakteristiknya Menggunakan Linear Regression. *Jurnal BATIRSI*, 6(2), 20-23.
- Putri, M. K. (2019). Identifikasi Citra Batu Mulia dengan Menggunakan Metode Jaringan Saraf Tiruan Backpropagation. *JURNAL EKSPLORA INFORMATIKA*, 9(1), 11-16.
- Saifullah, S., Sunardi, & Yudhana, A. (2016). ANALISIS PERBANDINGAN PENGOLAHAN CITRA ASLI DAN HASIL CROPING UNTUK IDENTIFIKASI TELUR. *Jurnal Teknik Informatika dan Sistem Informasi*, 341-350.
- Sari, Y., Arifin, Y. F., Novitasari, & Faisal, M. R. (2023). The Effect of Batch Size and Epoch on Performance of ShuffleNet-CNN Architecture for Vegetation Density Classification. *SIET '22: Proceedings of the 7th International Conference on Sustainable Information Engineering and Technology* (pp. 39-46). New York: Association for Computing Machinery.
- Schumann, W. (2001). *Gemstones of the world*. Robert Hale Ltd.
- Smarasekara, S., & Meegama, R. (2021). Convolutional Neural Network for Classification and Value Estimation of Selected Gemstones in Sri Lanka. *INTERNATIONAL CONFERENCE ON ADVANCES IN TECHNOLOGY AND COMPUTING (ICATC-2021)*.
- Susanto, L. A. (2023). PEMILIHAN HYPERPARAMETER PADA ALEXNET CNN UNTUK KLASIFIKASI CITRA PENYAKIT KEDELAI. *INDEXIA : Informatic and Computational Intelligent Journal*, 113-122.
- Syarifah, A., Riadi, A. A., & Susanto, A. (2022). Klasifikasi Tingkat Kematangan Jambu Bol Berbasis Pengolahan Citra Digital Menggunakan Metode K-Nearest Neighbor. *JIMP : Jurnal Informatika Merdeka Pasuruan*, 27-35.
- Tropea, M., Fedele, G., De Luca, R., Miriello, D., & De Rango, F. (2022). Automatic Stones Classification through a CNN-Based Approach. *Sensors*, 22(16).
- Vaibhav, K., Prasad, J., & Singh, B. (2019). Convolutional Neural Network for Classification for Indian Jewellery . *International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019)* , (pp. 363-369). Jaipur.
- Varley, D. (1859). *Mineralogy for Beginners*.
- Wibawa, M. S. (2017). Pengaruh Fungsi Aktivasi, Optimisasi dan Jumlah Epoch Terhadap Performa Jaringan Saraf Tiruan. *Jurnal Sistem dan Informatika (JSI)*, 1-8.

Yusuf, A., Wihandika, R. C., & Dewi, C. (2019). Klasifikasi Emosi Berdasarkan Ciri Wajah Menggunakan Convolutional Neural Network. *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, 10595-10604.

Zhang, S., & Guo, Y. (2021). Measurement of gem colour using a computer vision system: A case study with jadeite-jade. *Minerals*, 11(8).

Zonyfar, C. (2020). *Pengolahan Citra Digital : Sebuah Pengantar*. Serang: Desanta muliavisitama.