

## DAFTAR PUSTAKA

- [1] Ridho Aji Pangestu, Basuki Rahmat, and Fetty Tri Anggraeny, "Implementasi Algoritma Cnn Untuk Klasifikasi Citra Lahan Dan Perhitungan Luas," *J. Inform. dan Sist. Inf.*, vol. 1, no. 1, pp. 166–174, 2020.
- [2] F. F. Maulana and N. Rochmawati, "Klasifikasi Citra Buah Menggunakan Convolutional Neural Network," *J. Informatics Comput. Sci.*, vol. 1, no. 02, pp. 104–108, 2020, doi: 10.26740/jinacs.v1n02.p104-108.
- [3] S. Jerome Gideon, A. Kandulna, A. A. Kujur, A. Diana, and K. Raimond, "Handwritten signature forgery detection using convolutional neural networks," *Procedia Comput. Sci.*, vol. 143, pp. 978–987, 2018, doi: 10.1016/j.procs.2018.10.336.
- [4] J. Arifin and M. Z. Naf'an, "Verifikasi Tanda Tangan Asli Atau Palsu Berdasarkan Sifat Keacakan (Entropi)," *J. Infotel*, vol. 9, no. 1, p. 130, 2017, doi: 10.20895/infotel.v9i1.136.
- [5] R. F. Ardiansyah, "Pengenalan Pola Tanda Tangan Dengan Menggunakan Metode Principal Component Analysis (PCA)," *J. Educ. Dev.*, vol. 8, no. No. 1, p. Hal. 134, 2020.
- [6] S. Berthalina, "Keabsahan Tanda Tangan Elektronik Dalam Akta Notaris," *Fak. Ilmu Komput. Univ. Dian Nuswantoro*, vol. 2, p. 14 pages, 2020.
- [7] Rochani and R. et el Aprilian, "Analisa Bentuk Pemalsuan Tanda Tangan Pada Dokumen," vol. 1, no. 2, pp. 86–95, 2021.
- [8] G. Novandra, M. Z. Naf'an, and T. G. Laksana, "Perancangan aplikasi android identifikasi tanda tangan menggunakan multi layer perceptron," *JUPI (Jurnal Ilm. Penelit. dan Pembelajaran Inform.)*, vol. 03, no. 01, pp. 76–83, 2018, [Online]. Available: <https://jurnal.stkipgritulungagung.ac.id/index.php/jupi/article/view/660>
- [9] P. A. Fatimah, "Akibat Hukum Pemalsuan Tanda Tangan Dalam Akta Jual Beli (Studi Kasus Putusan Mahkamah Agung Republik Indonesia Nomor 898K/PID/2018)," *Biomass Chem Eng*, vol. 3, no. 2, p. 2018, <http://journal.stainkudus.ac.id/index.php/equilibrium/article/view/1268/1127%0Ahttp://publicacoes.cardiol.br/portal/ijcs/portugues/2018/v3103/pdf/3103009.pdf%0Ahttp://www.scielo.org.co/scielo.php?scri>

pt=sci\_arttext&pid=S0121-75772018000200067&lng=en&tlng=

- [10] E. Alajrami *et al.*, “Handwritten Signature Verification using Deep Learning,” *Int. J. Acad. Multidiscip. Res.*, vol. 3, no. 12, pp. 39–44, 2019, [Online]. Available: [www.ijeais.org/ijamr](http://www.ijeais.org/ijamr)
- [11] R. T. Prasetio and E. Ripandi, “Optimasi Klasifikasi Jenis Hutan Menggunakan Deep Learning Berbasis Optimize Selection,” *J. Inform.*, vol. 6, no. 1, pp. 100–106, 2019, doi: 10.31311/ji.v6i1.5176.
- [12] M. A. Hasan, Y. Riyanto, and D. Riana, “Grape leaf image disease classification using CNN-VGG16 model,” *J. Teknol. dan Sist. Komput.*, vol. 9, no. 4, pp. 218–223, 2021, doi: 10.14710/jtsiskom.2021.14013.
- [13] N. Sharma, R. Mandal, R. Sharma, U. Pal, and M. Blumenstein, “Signature and logo detection using deep CNN for document image retrieval,” *Proc. Int. Conf. Front. Handwrit. Recognition, ICFHR*, vol. 2018-Augus, pp. 416–422, 2018, doi: 10.1109/ICFHR-2018.2018.00079.
- [14] A. M. Andalan, “Kedudukan Tanda Tangan Elektronik dalam Transaksi Teknologi Finansial Affan,” *Jurist-Diction*, vol. 2, no. 6, pp. 1931–1950, 2019.
- [15] M. Octavia, J. K., and Gasim, “Perbandingan Tingkat Akurasi Jenis Citra Keabuan, HSV, dan L\*a\*b\* Pada Identifikasi Jenis Buah Pir,” *J. Ilm. Inform. Glob. Vol. 7 No.1 JULI 2016*, 2016.
- [16] A. Khair, S. Darma, Suginam, and A. Karim, “Aplikasi Pembelajaran Citra Dengan Menggunakan Metode Computer Assisted Instruction (CAI),” *Ilm. Inform. Glob.*, vol. 7, no. 1, pp. 7–11, 2016, [Online]. Available: <http://ejournal.uigm.ac.id/index.php/ig/article/view/143%0Ahttp://ejournal.uigm.ac.id/index.php/IG/article/download/143/138>
- [17] M. R. Kumaseh, L. Latumakulita, and N. Nainggolan, “Segmentasi Citra Digital Ikan Menggunakan Metode Thresholding,” *J. Ilm. Sains*, vol. 17, no. 2, p. 161, 2013, doi: 10.35799/jis.17.2.2017.18128.
- [18] K. G. Kim, “Deep learning book review,” *Nature*, vol. 29, no. 7553, pp. 1–73, 2016.
- [19] V. Gunova, “Implementasi Deep Learning Pada Simulasi Autonomous Drive Menggunakan Airsim,” *J. Softw. Eng. Inf. Commun. Technol.*, vol. 2, no. 1,

- pp. 83–92, 2021.
- [20] I. M. Choldun and K. Surendro, “KLASIFIKASI PENELITIAN DALAM DEEP LEARNING,” vol. 10, no. 1, 2018.
- [21] S. I. Pradika, B. Nugroho, and E. Y. Puspaningrum, “Pengenalan Tulisan Tangan Huruf Hijaiyah Menggunakan Convolution Neural Network Dengan Augmentasi Data,” *Pros. Semin. Nas. Inform. Bela Negara*, vol. 1, pp. 129–136, 2020, doi: 10.33005/santika.v1i0.35.
- [22] N. Khunafa Qudsi *et al.*, “Identifikasi Citra Tulisan Tangan Digital Menggunakan Convolutional Neural Network (CNN),” *Semin. Inform. Apl. Polinema*, pp. 48–53, 2019.
- [23] R. Mehindra Prasmatio, B. Rahmat, and I. Yuniar, “Deteksi Dan Pengenalan Ikan Menggunakan Algoritma Convolutional Neural Network,” *J. Inform. dan Sist. Inf.*, vol. 1, no. 2, pp. 510–521, 2020.
- [24] M. S. Wibawa, “Pengaruh Fungsi Aktivasi, Optimisasi dan Jumlah Epoch Terhadap Performa Jaringan Saraf Tiruan,” *J. Sist. dan Inform.*, vol. 11, no. 2, pp. 1–8, 2017, doi: 10.13140/RG.2.2.21139.94241.
- [25] A. Smith and Z. Sya’diyah, “Peramalan Jumlah Kendaraan Di Dki Jakarta Dengan Jaringan Backpropagation,” *BAREKENG J. Ilmu Mat. dan Terap.*, vol. 10, no. 2, pp. 117–125, 2017, doi: 10.30598/barekengvol10iss2pp117-125.
- [26] A. Sudarsono, “Jaringan Syaraf Tiruan Untuk Memprediksi Laju Pertumbuhan Penduduk Menggunakan Metode Bacpropagation (Studi Kasus Di Kota Bengkulu),” *J. Media Infotama*, vol. 12, no. 1, pp. 61–69, 2016, doi: 10.37676/jmi.v12i1.273.
- [27] E. Allibhai, “Building A Deep Learning Model using Keras,” 2018. <https://towardsdatascience.com/building-a-deep-learning-model-using-keras-1548ca149d37>
- [28] Fchollet, “The Sequential Model,” 2020. [https://keras.io/guides/sequential\\_model/](https://keras.io/guides/sequential_model/)
- [29] J. W. G. Putra, *Pengenalan Konsep Pembelajaran Mesin dan Deep Learning Edisi 1.4 (17 Agustus 2020)*, vol. 4, 2020.
- [30] K. Will, “Overfitting vs Underfitting : A Complete Example,” *Towar. Data*

*Sci.*, pp. 1–12, 2018.

- [31] R. J. Gunawan, B. Irawan, and C. Setianingsih, “Pengenalan Ekspresi Wajah Berbasis Convolutional Neural Network Dengan Model Arsitektur VGG16 Facial Expression Recognition Based On Convolutional Neural Network with VGG16 Architecture Model,” *e-Proceeding Eng.*, vol. 8, no. 5, p. 6442, 2021.
- [32] K. R. Srinath, “Python -The Fastest Growing Programming Language,” *Int. Res. J. Eng. Technol.*, vol. 4, no. 12, pp. 354–357, 2017, [Online]. Available: [www.irjet.net](http://www.irjet.net)
- [33] “What is Numpy?” <https://numpy.org/doc/stable/user/whatisnumpy.html>
- [34] “About Keras.” <https://keras.io/about/#:~:text=Keras is a deep learning,key to doing good research.>
- [35] S. Yegulalp, “What is TensorFlow? The machine learning library explained,” 2022. <https://www.infoworld.com/article/3278008/what-is-tensorflow-the-machine-learning-library-explained.html>
- [36] B. Kumar, “What is Matplotlib and how to use it in Python,” 2021. <https://pythonguides.com/what-is-matplotlib/>