

## DAFTAR PUSTAKA

- [1] S. Zubair and A. Solichin, “Pengenalan karakter sandi rumput pramuka menggunakan jaringan saraf tiruan dengan metode backpropagation,” *Seminar Nasional Teknologi Informasi dan Multimedia*, vol. 3, no. 9, pp. 1–6, 2017
- [2] R. S. Bahri and I. Maliki, “Perbandingan Algoritma Template Matching Dan Feature Extraction Pada Optical Character Recognition,” *Jurnal Komputer dan Informatika*, vol. 1, no. 1, pp. 29–35, 2012.
- [3] M. C. Wibowo and S. Wirakusuma, “Pengenalan Pola Tulisan Tangan Aksara Jawa,” *SNASTI 2013*, vol. 3, no. 1, pp. 27–32, 2013.
- [4] U. Rohwana and M. isa Irawan, “Pengenalan Tulisan Tangan Huruf Latin Bersambung Secara Real Time Menggunakan Algoritma Learning Vector Quantization,” *J. Sains Dan Seni Pomits*, vol. 2, no. 1, pp. 1–6, 2013.
- [5] Suyanto, *Machine Learning: Tingkat Dasar dan Lanjut*. Bandung: Penerbit Informatika, 2018.
- [6] M. L. Afakh, A. Risnumawan, M. E. Anggraeni, M. N. Tamara, and E. S. Ningrum, “Aksara jawa text detection in scene images using convolutional neural network,” *Proceedings - International Electronics Symposium on Knowledge Creation and Intelligent Computing IES-KCIC 2017*, vol. 2017-Janua, pp. 77–82, 2017.
- [7] C. K. Dewa, A. L. Fadhilah, and A. Afiahayati, “Convolutional Neural Networks for Handwritten Javanese Character Recognition,” *IJCCS*, vol. 12, no. 1, p. 83, 2018.
- [8] I. Ramadhan, “Pengenalan Pola Citra Tulisan Tangan Aksara Sunda dengan Metode Convolutional Neural Network,” *SKRIPSI Program Studi Teknik Informatika UNIKOM*, 2018.
- [9] M. & B. S. Zufar, “Convolutional Neural Networks untuk Pengenalan Wajah Secara Real-Time,” *J. Sains dan Seni*, vol. 5, no. 3, pp. 1–6, 2016.
- [10] Q. Zhao, Y. Li, N. Yang, Y. Yang, and M. Zhu, “A convolutional neural network approach for semaphore flag signaling recognition,” *2016 IEEE*

- International Conference on Signal and Image Processing. ICSIP 2016*, pp. 466–470, 2017.
- [11] Sugiyono, *Metode Penelitian Pendidikan, Penelitian Kuantitatif, Kualitatif dan R&D*. Bandung: Penerbit CV. Alfabeta, 2013.
- [12] D. Purnomo, “Model Prototyping Pada Pengembangan Sistem Informasi,” *JIMP - Jurnal Informatika Merdeka Pasuruan*, vol. 2, no. 2, pp. 54–61, 2017.
- [13] R. S. Pressman and B. R. Maxim, *Software engineering : a practitioner’s approach*. New York: McGraw-Hill Higher Education, 2015.
- [14] R. C. Gonzalez and R. E. Woods, *Digital Image Processing (3rd Edition)*. Upper Saddle River, NJ, USA: Prentice-Hall, Inc., 2006.
- [15] P. Hidayatullah, *Pengolahan Citra Digital Teori dan Aplikasi Nyata*. Bandung: Penerbit Informatika, 2018.
- [16] A. Murni, *Pengantar Pengolahan Citra*. Jakarta: Elex Media Komputindo, 1991.
- [17] A. Kadir and A. Susanto, *Teori dan Aplikasi Pengolahan Citra*. Yogyakarta: Penerbit ANDI, 2013.
- [18] C. Solomon and T. Breckon, *Fundamentals of Digital Image Processing: A Practical Approach with Examples in Matlab*, 1st ed. Wiley Publishing, 2011.
- [19] J. Sauvola and M. Pietikäinen, “Adaptive document image binarization,” *Pattern Recognition*, vol. 33, no. 2, pp. 225–236, 2000.
- [20] K. Khurshid, I. Siddiqi, C. Faure, and N. Vincent, “Comparison of Niblack inspired binarization methods for ancient documents,” *Document Recognition and Retrieval XVI*, vol. 7247, no. February 2017, p. 72470U, 2008.
- [21] A. F. Agarap, “Deep Learning using Rectified Linear Units (ReLU),” *ArXiv 2018*, vol. 1, no. 1, pp. 2–8, 2018.
- [22] B. Hidayat, “Deteksi Hama Pada Daun Teh Dengan Metode Convolutional Neural Network ( CNN ),” *SKRIPSI Program Studi Teknik Informatika UNIKOM*, 2018.
- [23] I. W. S. E. Putra, “Klasifikasi Citra Menggunakan Convolutional Neural

- Network (Cnn) Pada Caltech 101,” *Jurnal Teknik ITS*, vol. 5, no. 1, p. 76, 2016.
- [24] P. Sadowski, “Notes on Backpropagation,” *Department of Computer Science University of California Irvine*, vol. 1, no. 4, pp. 1–3, 2017.
- [25] D. P. Kingma and J. Ba, “Adam: A Method for Stochastic Optimization,” *ICLR 2015*, pp. 1–15, 2015.
- [26] A. Indriani, “Klasifikasi Data Forum dengan menggunakan Metode Naive Bayes Classifier,” *Seminar Nasional Aplikasi Teknologi Informasi*, vol. 20, no. ISSN: 1907-5022, pp. 5–10, 2014.
- [27] A. Nugroho, *Rekayasa Perangkat Lunak Berorientasi Objek dengan Metode USDP (Unified Software Development Process)*. Yogyakarta: Penerbit ANDI, 2010.
- [28] S. Dharwiyanti and R. S. Wahono, “Analisis & Perancangan UML (Unified Modeling Language) Generated VB.6,” *Graha Ilmu*, pp. 30–45, 2013.
- [29] KPM, *Buku Panduan Pemrograman Python*, vol. 84. Pemerintah Kabupaten Pematang, 2013.
- [30] J. Minichino, *Learning OpenCV 3 Computer Vision with Python: Unleash the Power of Computer Vision with Python Using OpenCV*. Packt Publishing, 2015.
- [31] M. Smith, “Introduction to OpenCV,” *Computer Science and Engineering University of Nevada, Reno*, 2011. [Online]. Available: [https://www.cse.unr.edu/~bebis/CS485/Lectures/Intro\\_OpenCV.pdf](https://www.cse.unr.edu/~bebis/CS485/Lectures/Intro_OpenCV.pdf). [Accessed: 14-Jun-2019].
- [32] N. Community, “Numpy User Guide Release 1.11.0,” *Scipy*, 2016. [Online]. Available: <https://docs.scipy.org/doc/numpy-1.11.0/numpy-user-1.11.0.pdf>. [Accessed: 14-Jun-2019].
- [33] F. Chollet, “Keras,” *Keras*, 2015. [Online]. Available: [keras.io](https://keras.io). [Accessed: 14-Jun-2019].
- [34] I. Kholis, “Analisis Variasi Parameter Backpropagation Artificial Neural Network Terhadap Pengenalan Pola Data Iris,” *Teknik dan Ilmu Komputer Universitas 17 Agustus 1945 Jakarta*, 2015.

- [35] K. He, X. Zhang, S. Ren, and J. Sun, “Delving deep into rectifiers: Surpassing human-level performance on imagenet classification,” *Proceedings of the IEEE International Conference on Computer Vision*, vol. 2015 Inter, pp. 1026–1034, 2015.
- [36] M. Sokolova and G. Lapalme, “A systematic analysis of performance measures for classification tasks,” *Information Processing and Management*, vol. 45, no. 4, pp. 427–437, 2009.
- [37] N. I. Widiastuti, “Deep Learning - Now and Next in Text Mining and Natural Language Processing,” *IOP Conference Series: Materials Science and Engineering*, vol. 407, no. 1, 2018.

