

DAFTAR PUSTAKA

- Ahmad Hania, Abu. (2017). Mengenal Artificial Intelligence, Machine Learning, Neural Network, dan Deep Learning. Jurnal Teknologi Indonesia.
- Ahmad. U, 2005, Pengolahan Citra Digital da Teknik Pemrogramannya, Graha Ilmu
- Anbarjafari, G., Jafari, A., Jahromi, M. N., Ozcinar, C., & Demirel, H. (2015). Image Illumination Enhancement With an Objective no-reference measure of illumination assessment based on Gaussian distribution Mapping. Engineering Science and Technology, an International Journal.
- Astuti, Fitri Andri. 2021. Pemanfaatan Teknologi Artificial Intelligence untuk Penguatan Kesehatan dan Pemulihan Ekonomi Nasional. Bandung
- Arunava, "Convolutional Neural Networks," 2018. [Online]. Available: <https://towardsdatascience.com/convolutional-neural-network17fb77e76c05>.
- A. Peryanto, A. Yudhana and R. Umar, "Rancang Bangun Klasifikasi Citra Dengan Teknologi Deep Learning Berbasis Metode Convolutional Neural Network," Jurnal Format, vol. 8, no. 2, pp. 138-147, 2019.
- A. Santoso and G. Ariyanto, "Implementasi Deep Learning Berbasis Keras Untuk Pengenalan Wajah," Emitor: Jurnal Teknik Elektro, vol. 18, no. 1, 2018.
- A. M. REZA, "Realization of the Contrast Limited Adaptive Histogram Equalization (CLAHE) for Real-Time Image Enhancement," Journal of VLSI Signal Processing, vol. 28, no. 1, pp. 25-44, 2004.
- B. Khasoggi and E. Samsuryadi, "Efficient mobilenet architecture as image recognition on mobile and embedded devices," Indonesian Journal of Electrical Engineering and Computer Science, vol. 16, no. 1, p. 389~394, 2019
- C.-Y. Lee, P. W. Gallagher and Z. Tu, "Generalizing Pooling Functions in Convolutional Neural Networks: Mixed, Gated, and Tree," Artificial Intelligence and Statistics, vol. 51, no. 1, pp. 464-472, 2016.
- Center of Disease Control and Prevention. Transmission and Pathogenesis of Tuberculosis.2013
- Chitradevi, B., & Srimathi, P. (2014). An Overview Image Processing Techniques. International Journal of Innovative Research in Computer and Communication Engineering. India: ISSN.

- Cristianini, N. dan Shawe-Taylor, J., 2006, An introduction to support vector machines: And other kernel-based learning methods, Cambridge: Cambridge University Press
- D. Paras, "Classification and Loss Evaluation – Softmax and Cross Entropy Loss" 2016. [Online]. Available: <https://deeptnotes.io/softmaxcrossentropy>.
- D. P. Kingma and J. L. Ba, "ADAM: A METHOD FOR STOCHASTIC OPTIMIZATION," ICLR, 2015.
- Depkes RI. 2008. Pedoman Nasional Penanggulangan Tuberkulosis, edisi 2, Jakarta: Dirjen P2M&PL.
- Eko, Dirvi.J.S., Asih,Setiarini. 2017. Identifikasi Bakteri pada Citra Dahak Penderita Tuberculosis (TBC) Menggunakan Metode Watershed. Journal of Electrical Electronic Control and Automotive Engineering (JEECAE). Madiun. Vol.2, No.1.
- Evelyn CP, 2009. Anatomi dan Fisiologi untuk Paramedis. Jakarta. Gramedia
- F. LI, H. CHEN, . Z. LIU, X.-D. ZHANG, M.-S. JIANG, Z.-Z. WU and K.-Q. ZHOU, "Deep learning-based automated detection of retinal diseases using optical coherence tomography images," Biomedical Optic Express, vol. 10, no. 12, pp. 6204-6226, 2019.
- Goldberg, D. E., & Holland, J. H. (1988). Genetic algorithms and machine learning. Machine Learning, 3(2), 95–99.
- Gonzales, Rafael C. & Richard E. Woods & Steven L. Eddins. 2004. Digital Image Processing. Prentice-Hall
- Hadiarto, Mangunegoro. 2015. Diagnosis dan Penatalaksanaan Asma. Jurnal Respirologi Indonesia. 15(3): 113-119
- Howard, A. G., M. Zhu, B. Chen, D. Kalenichenko, W. Wang, T. Weyand, . M. Andreetto and H. Adam, 2017 . "MobileNets: Efficient Convolutional Neural Networks for Mobile Vision," Computer Science,
- Icksan A.G, Luhur R., 2008. Radiologi Thorax Tuberculosis Paru. 1st edition, Jakarta: Sagung Seto. Hal 2-3, 7, 16.
- Indriani, D., Adiningsih, S., Mahmudiono, T. (2005). Faktor resiko yang mem-pengaruhi kejadian TB paru pada anak jalanan dengan studi kasus di Yayasan Insani Surabaya. Jurnal FKM UA. Surabaya
- Ioffe, S., & Szegedy, C. (2015). Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift. Retrieved from <http://arxiv.org/abs/1502.03167>

- Jayanti, N. 2013. Perbandingan Kapasitas Vital Paru pada Atlet Pria Cabang Olahraga & Lari Cepat Persiapan Olahraga Provinsi 2013 di Bandar Lampung. *Majority Journal*. 2(5): 113-118.
- Jong, J.S, 2005, Jaringan Saraf Tiruan dan Pemrogramannya Menggunakan Matlab, C.V Andi Offset, Yogyakarta
- Kadir, A. & Susanto, A. (2013). Teori dan Aplikasi Pengolahan Citra. Yogyakarta: Penerbit ANDI
- Karargyris, A., Jaegar, S., Antani, S., & Thoma, G. (2012). Detection Tuberculosis in Radiographs Using Combined Lung Masks. Annual International Conference. San Diego, California USA: IEEE EMBS.
- Khan, A. H. (2016). Tuberculosis Control in Sindh, Pakistan: Critical Analysis of its Implementation. King Saud Bin Abdulaziz University for Health Sciences. Pakistan: Elsevier Limited.
- Knechel, N. A., RN, MSN, & ACNP. (2009). Tuberculosis; Pathophysiology, Clinical Features, and Diagnosis. Clinical Article.
- L. Perez and J. Wang. The effectiveness of data augmentation in image classification using deep learning, 2017.
- Loey, M., Manogaran, G., & Khalifa, N. E. M. (2020). A deep transfer learning model with classical data augmentation and CGAN to detect COVID-19 from chest CT radiography digital images. *Neural Computing and Applications*, 0123456789.
- Maladkar, K., 2020, Overview of convolutional neural network in image classification, *Analytics India Magazine*, Available at: <https://analyticsindiamag.com/convolutional-neural-network-image-classification-overview/> (Accessed October 23, 2021).
- Maysanjaya, I. M. D. (2020). Klasifikasi Pneumonia pada Citra X-rays Paru-paru dengan Convolutional Neural Network. *Jurnal Nasional Teknik Elektro Dan Teknologi Informasi*, 9(2), 190–195. <https://doi.org/10.22146/jnteti.v9i2.66>
- Mitha.N, Wara. 2014. Analisis Citra Sinar-X Tulang Tangan Menggunakan Metode Thresholding Otsu Untuk Identifikasi Osteoporosis. Skripsi. Pontianak: Universitas Tanjungpura
- Munir, R., 2004, Pengolahan Citra Digital dengan Pendekatan Algoritmik, Informatika, Bandung.
- N. M. S. HADIS and . R. ANGRIAWAN, "NILAI OPTIMAL CLIP LIMIT METODE CLAHE UNTUK MENINGKATKAN AKURASI PENGENALAN WAJAH PADA VIDEO CCTV," *JURNAL INSTEK*, vol. 5, 2020.

- Patil, N. M., & Nemade, M. U. (2017). Music Genre Classification Using MFCC , K-NN and SVM Classifier. 4(2), 43–47.
- Pasi, Nani Sulviana. 2018. Identifikasi Penyakit Tuberkulosis (TB) Organ Paru Berdasarkan Citra X-ray Menggunakan Probabilistic Neural Network (PNN), Skripsi.Jurusan Teknologi Informasi Universitas Sumatera Utara Medan
- Purnamasari, R. W., 2013, Implementasi jaringan Syaraf Tiruan Backpropagation Sebagai Sistem Deteksi Penyakit TBC, Skripsi, Jurusan Matematika UNNES Semarang
- R. Rahmadewi and . R. Kurnia, "KLASIFIKASI PENYAKIT PARU BERDASARKAN CITRA RONTGEN," Jurnal Nasional Teknik Elektro, Vols. Vol: 5,, no. 1, pp. 2302 - 2949, Maret 2016.
- Rohmah, R. N., Susanto, A., & Soesanti, I. (2013). Lung Tuberculosis Identification Based on Statistical Feature of Thoracic X-ray. IEEE Quality in Research (pp. 19-20). Indonesia: IEEE.
- Rohman, Feri Fahrur dan Ami Fauziah. 2008. Rancang bangun aplikasi sistem pakar untuk menentukan jenis gangguan perkembangan pada anak. Jurnal Media Informatika Vol 6 No 1 ISSN : 0854-4743.
- Santosa, B. 2007. Data Mining Teknik Pemanfaatan Data untuk Keperluan Bisnis. Yogyakarta: Graha Ilmu.
- Santosa, P. A. (2014). Implementasi Jaringan Syaraf Tiruan dalam Memilih Metode Enhanced Oil Recovery. proceeding Simposium Nasional IATMII.
- Sofia, N. (2018). Convolutional Neural Network. Retrieved August 4, 2020, from Medium.
- Suciati, Nanik & Rosdiana Rahmawati. (2006). Dekomposisi Morfologi Bentuk Biner Dua dimensi Menjadi Poligon Konveks dengan Pendekatan Heuristik. Jurusan Teknik Informatika, Fakultas Teknologi Informasi, Institut Teknologi Sepuluh Nopember
- Suhendra, Adang. 2004. Catatan Kuliah Pengantar Pengolahan Citra. Univesitas Gunadarma.
- Sutoyo, T. 2009. Teori Pengolahan Citra Digital. Yogyakarta:Andi
- Tanaka, M.; Okutomi, M. A novel inference of a restricted boltzmann machine. Pattern Recognition (ICPR), 2014 22nd International Conference on. 2014; pp 1526–1531.

- Tua, Jodiaman. 2017. Klasifikasi Penyakit Stroke Menggunakan Convolutional Neural Network. Skripsi. Program Studi Teknologi Informasi. Fakultas Ilmu Komputer dan Teknologi Informasi. Universitas Sumatera Utara. Medan
- Ucar, F., & Korkmaz, D. (2020). COVIDiagnosis-Net: Deep Bayes-SqueezeNet based diagnosis of the coronavirus disease 2019 (COVID-19) from X-ray images. *Medical Hypotheses*, 140(April), 109761. <https://doi.org/10.1016/j.mehy.2020.109761>
- Utami, S. R. (2014). Perancangan Aplikasi Perbaikan Citra Hasil Pengambilan Webcam Menerapkan Metode Contrast Stretching. *Jurnal Pelita Informatika Budi Darma* Volume VII, pp.39-43.
- W. Wang, Y. Hu, T. Zou, H. Liu, J. Wang and X. Wang, "A New Image Classification Approach via Improved MobileNet Models with Local Receptive Field Expansion in Shallow Layers," *Hindawi*, vol. 1, no. 1, pp. 1-10, 2020.
- W. Widayat, "Pengaruh Word Embedding Dimension Reduction Terhadap Kinerja LSTM untuk Analisis Sentimen," 2018.
- Wang, Yu, Chen, Y., Yang, N., Zheng, L., Dey, N., Ashour, A. S., ... Shi, F. (2018). Classification of mice hepatic granuloma microscopic images based on a deep convolutional neural network. *Applied Soft Computing Journal*. <https://doi.org/10.1016/j.asoc.2018.10.006>
- Wang, S.C., 2003, Artificial Neural Network, *Interdisciplinary Computing in Java Programming*, 81–100.
- Wayan. I.S.E.P., Arya, Yudhi.W., Rully, Soelaiman. 2016. Klasifikasi Citra Menggunakan Convolutional Neural Network (Cnn) pada Caltech 101. *Jurnal Teknik ITS*. Surabaya. Vol. 5, No. 1.
- WibowoD., Paryana W., 2009. *Anatomi Tubuh Manusia*. Yogyakarta: Graha Ilmu.
- World Health Organization (WHO Region (2016). *Tuberculosis Control In The SouthEast Asia Region*. New Delhi, India: Region Office for South-East As
- Y. R. Aditya, "Fully-Connected Layer CNN dan Implementasinya" 2018. [Online]. Available: <http://machinelearning.mipa.ugm.ac.id/2018/06/25/fully-connected-layercnn-da>