

## DAFTAR PUSTAKA

- Abbiramy, V. S., V. Shanthi, dan Charanya Allidurai. 2010. "Spermatozoa detection, counting and tracking in video streams to detect asthenozoospermia." *Proceedings of the 2010 International Conference on Signal and Image Processing, ICSIP 2010*: 265–70.
- Andono, P. N., Sutojono, T., & Muljono. 2017. *Pengolah Citra Digital*. Semarang: ANDI.
- Auger, J., P. Jouannet, dan F. Eustache. 2016. "Another look at human sperm morphology." *Human Reproduction* 31(1): 10–23.
- Bjorck, Johan, Carla Gomes, Bart Selman, dan Kilian Q. Weinberger. 2018. "Understanding batch normalization." *Advances in Neural Information Processing Systems 2018-Decem(NeurIPS)*: 7694–7705.
- Budianita, Elvia, Fajri Ridho Hustianto, Fadhilah Syafria, dan Muhammad Nasir. 2018. "Implementasi Algoritma Jaringan Syaraf Tiruan ( JST ) Hopfield untuk Klasifikasi Kualitas Kesuburan Pria." *Seminar Nasional Teknologi Informasi, Komunikasi dan Industri (SNTIKI-10)* (November): 137–42.
- Budiarto Hadiprakoso, Raden, dan I Komang Setia Buana. 2021. "Deteksi Serangan Spoofing Wajah Menggunakan Convolutional Neural Network." *Jurnal Teknik Informatika dan Sistem Informasi* 7(3): 618–26.
- Effendi, Masud, Fitriyah Fitriyah, dan Usman Effendi. 2017. "Identifikasi Jenis dan Mutu Teh Menggunakan Pengolahan Citra Digital dengan Metode Jaringan Syaraf Tiruan." *Jurnal Teknotan* 11(2): 67.
- Fachrurrozi, M I. 2021. "Implementasi Object Localization Dengan Metode Cnn Untuk Deteksi Indonesian Sign Language Bisindo." <http://repository.upnjatim.ac.id/3249/>.
- Harsh Kukreja, Bharath N, Siddesh C S, Kuldeep S. 2016. "An Introduction to Artificial Neural Networks." 1(5): 27–30.
- Howard, Andrew G. et al. 2017. "MobileNets: Efficient Convolutional Neural Networks for Mobile Vision Applications." <http://arxiv.org/abs/1704.04861>.
- ILHAN, Hamza. "Sperm Morphology Image Data Set (SMIDS)." : 2022. <https://data.mendeley.com/datasets/6xvdhc9fyb/1>.
- Jason Brownlee. 2020. "How Do Convolutional Layers Work in Deep Learning

- Neural Networks?” *Machine Learning Mastery*.  
<https://machinelearningmastery.com/convolutional-layers-for-deep-learning-neural-networks/>.
- Jiang, Xianwei, Mingzhou Lu, dan Shui Hua Wang. 2020. “An eight-layer convolutional neural network with stochastic pooling, batch normalization and dropout for fingerspelling recognition of Chinese sign language.” *Multimedia Tools and Applications* 79(21–22): 15697–715.
- Kaiser, Łukasz, Aidan N. Gomez, dan François Chollet. 2018. “Depthwise separable convolutions for neural machine translation.” *6th International Conference on Learning Representations, ICLR 2018 - Conference Track Proceedings*.
- Lecun, Yann, Yoshua Bengio, dan Geoffrey Hinton. 2015. “Deep learning.” *Nature* 521(7553): 436–44.
- Lina, Qolbiyatul. 2019. “Apa itu Convolutional Neural Network? | by QOLBIYATUL LINA | Medium.” *Medium.Com*: 1–17.  
<https://medium.com/@16611110/apa-itu-convolutional-neural-network-836f70b193a4>.
- Masdiyasa, I. Gede Susrama, I. Ketut Edi Purnama, dan Mauridhy Heri Purnomo. 2016. “Teratozoospermia classification based on the shape of sperm head using OTSU threshold and decision tree.” *MATEC Web of Conferences* 58.
- N. Kapita, Syarifuddin, Samlan Mahdi, dan Firman Tempola. 2020. “Penilaian Pengetahuan Siswa Dengan Jaringan Syaraf Tiruan Algoritma Perceptron.” *Techno: Jurnal Penelitian* 9(1): 372.
- Nwankpa, Chigozie, Winifred Ijomah, Anthony Gachagan, dan Stephen Marshall. 2018. “Activation Functions: Comparison of trends in Practice and Research for Deep Learning.” : 1–20. <http://arxiv.org/abs/1811.03378>.
- Rachmad, Dwi Swasono. 2020. “Review Named Entity Recognition dengan Menggunakan Machine Learning.” *Jurnal Sains dan Informatika* 6(1): 28–33.
- Renu Khandelwal. 2019. “Overview of different Optimizers for neural networks.” *Medium*. <https://medium.com/datadriveninvestor/overview-of-different-optimizers-for-neural-networks-e0ed119440c3>.

- Rezkia. “Memahami Perbedaan Algoritma Machine Learning vs Deep Learning.” 2021. <https://www.dqlab.id/memahami-perbedaan-algoritma-machine-learning-vs-deep-learning> (Juni 5, 2022).
- Romario, M Hamsy, Eko Ihsanto, dan Trie Maya Kadarina. 2020. “Sistem Hitung dan Klasifikasi Objek dengan Metode Convolutional Neural Network.” *Jurnal Teknologi Elektro* 11(2): 108.
- Schubert, Benoit, Mélanie Badiou, dan André Force. 2019. “Computer-aided sperm analysis, the new key player in routine sperm assessment.” *Andrologia* 51(10): 1–14.
- Sena, Samuel. 2018. “Pengenalan Deep Learning Part 8 : Gender Classification using Pre-Trained Network (Transfer Learning) | by Samuel Sena | Medium.” *Medium.Com*. <https://medium.com/@samuelsena/pengenalan-deep-learning-part-8-gender-classification-using-pre-trained-network-transfer-37ac910500d1>.
- SETIADI. 2021. “Apa Itu Pembelajaran Transfer? Menjelajahi Pendekatan Deep Learning.” <http://sistem-komputer-s1.stekom.ac.id/informasi/baca/Apa-itu-Pembelajaran-Transfer-Menjelajahi-Pendekatan-Deep-Learning/abc97ffff99e82ffaa5729902f0fac3f95bc6ab1>.
- Stevens, Jacob R. et al. 2021. “Softermax: Hardware/Software Co-Design of an Efficient Softmax for Transformers.” *Proceedings - Design Automation Conference 2021-Decem*: 469–74.
- Susilawati. 2011. *Spermatologi*. Universitas Brawijaya Press.
- Susrama, I. G., K. E. Purnama, dan M. H. Purnomo. 2016. “Automated Analysis of Human Sperm Number and Concentration (Oligospermia) Using Otsu Threshold Method and Labelling.” In *IOP Conference Series: Materials Science and Engineering*,.
- Trisna Dewi, Ni Wayan Ariati, Anom Suardika, dan Ryan Saktika Mulyana. 2019. “Faktor penyebab infertilitas pasien program IVF (In Vitro Fertilization) di Klinik Graha Tunjung RSUP Sanglah.” *Intisari Sains Medis* 10(3): 741–45.
- WHO. 2020. “Infertility.” <https://www.who.int/news-room/fact-sheets/detail/infertility> (Februari 26, 2022).
- Widodo, Wahyu, Andy Rachman, dan Ruli Amelia. 2014. “Jaringan Syaraf

Tiruan Prediksi Penyakit Demam Berdarah Dengan Menggunakan Metode Backpropagation.” *Jurnal IPTEK* 18(01): 65–70. [https://jurnal.itats.ac.id/wp-content/uploads/2015/11/JARINGAN\\_SYARAF\\_TIRUAN\\_PREDIKSI\\_PENYAKIT.pdf](https://jurnal.itats.ac.id/wp-content/uploads/2015/11/JARINGAN_SYARAF_TIRUAN_PREDIKSI_PENYAKIT.pdf).

World Health Organization. 2021. Edition, V World Health Organization *WHO laboratory manual for the examination and processing of human semen Sixth Edition*.

[http://whqlibdoc.who.int/publications/2010/9789241547789\\_eng.pdf](http://whqlibdoc.who.int/publications/2010/9789241547789_eng.pdf).

Yüzkat, Mecit, Hamza Osman Ilhan, dan Nizamettin Aydin. 2021. “Multi-model CNN fusion for sperm morphology analysis.” *Computers in Biology and Medicine* 137(August): 104790. <https://doi.org/10.1016/j.combiomed.2021.104790>.