

REFERENCES

- Basavaprasad, B., Ravi, M., 2014, "A Study on The Importance of Image Processing and Its Applications." *International Journal of Research in Engineering and Technology*, vol. 03, no. 15, 2014, pp. 155–160., doi:10.15623/ijret.2014.0315029.
- Deshpande, Adit., 2016, "A Beginners guide to Understanding Convolutional Neural Network Part 2", Available at: <https://adeshpande3.github.io/A-Beginner%27s-Guide-To-Understanding-Convolutional-Neural-Networks-Part-2/>, [Accessed March 15 2018].
- Fausett, L., 1994. Fundamentals of neural networks: architectures, algorithms, and applications. Prentice-Hall Inc, New Jersey.
- Ferreira, A. and Gilson, G., 2017, "Convolutional Neural Network Approaches to Granite Tiles Classification." *Expert Systems with Applications*, vol. 84, 2017, pp. 1–11., doi:10.1016/j.eswa.2017.04.053.
- Galih, B., 2017, "2 Oktober 2009, UNESCO Akui Batik Sebagai Warisan Dunia Dari Indonesia." *nasional.kompas.com/read/2017/10/02/08144021/2-oktober-2009-unesco-akui-batik-sebagai-warisan-dunia-dari-indonesia*, [Accessed 1 Nov. 2017].
- Github, 2017, "Convolutional Neural Networks (CNNs / ConvNets)", [online], Available at: <http://cs231n.github.io/convolutional-networks/>, [Accessed 22 Nov. 2017].
- Guo, Y., Liu, Y., Oerlemans, Ard., Lao, S., Wu, S., Lew, M. S., 2015, "Deep Learning for Visual Understanding: A Review." *Neurocomputing*, vol. 187, 2016, pp. 27–48., doi:10.1016/j.neucom.2015.09.116.
- Hubel, D. H., and T. N. Wiesel., 1968 "Receptive Fields and Functional Architecture of Monkey Striate Cortex." *The Journal of Physiology*, vol. 195, no. 1, Jan. 1968, pp. 215–243., doi:10.1113/jphysiol.1968.sp008455.
- Jakartaglobe, 2009 "Unesco Lists Batik as Indonesian Cultural Heritage." *Jakarta Globe*, jakartaglobe.id/archive/unesco-lists-batik-as-indonesian-cultural-heritage/, [Accessed 18 Oct. 2017].

- Jiuxiang, G., Zhenhua, W., Jason, K., Lianyang, M., Amir, S., Bing, S., Ting, L., Xingxing, W., Gang, W., Jianfei, C., Tsuhan, C., 2017, "Recent Advances in Convolutional Neural Networks." *Pattern Recognition*, 2017, doi:10.1016/j.patcog.2017.10.013.
- Kerlogue, F., 2004 "*The Book of Batik*". Archipelago Press, Singapore.
- Krig, S., 2014, "Image Pre-Processing." *Computer Vision Metrics*, pp. 39–83., doi:10.1007/978-1-4302-5930-5_2.
- Krizhevsky, A., Sutskever, I., Hinton, G. E., 2015, "ImageNet Classification with Deep Convolutional Neural Networks." *Communications of the ACM*, vol. 60, no. 6, pp. 84–90., doi:10.1145/3065386.
- Mahanta, Jahnvi, 2017 "Introduction to Neural Networks, Advantages and Applications." *Towards Data Science*, Towards Data Science, towardsdatascience.com/introduction-to-neural-networks-advantages-and-applications-96851bd1a207.
- Rangkuti, A. H., Rasjid, Z. E., Santoso, D., 2015 "Batik Image Classification Using Treeval and Treefit as Decision Tree Function in Optimizing Content Based Batik Image Retrieval." *Procedia Computer Science*, vol. 59, 2015, pp. 577–583., doi:10.1016/j.procs.2015.07.551.
- Sammut, Claude, Webb, Geoffrey I., 2017, "Encyclopedia of Machine Learning and Data Mining." 2017, doi:10.1007/978-1-4899-7687-1.
- Stark, J.A., 2000 "Adaptive Image Contrast Enhancement Using Generalizations of Histogram Equalization." *IEEE Transactions on Image Processing*, vol. 9, no. 5, pp. 889–896., doi:10.1109/83.841534.
- Suciati, N., Pratomo, W. A., Purwitasari, D., 2014 "Batik Motif Classification Using Color-Texture-Based Feature Extraction and Backpropagation Neural Network." *2014 IIAI 3rd International Conference on Advanced Applied Informatics*, doi:10.1109/iaai-aa.2014.108.
- Tan, T. G., Teo, J., Anthony, P., 2011, "A Comparative Investigation of Non-Linear Activation Functions in Neural Controllers for Search-Based Game AI Engineering." *Artificial Intelligence Review*, vol. 41, no. 1, pp. 1–25., doi:10.1007/s10462-011-9294-y.

- Ujjwalkarn, 2016 “An Intuitive Explanation of Convolutional Neural Networks.” *The Data Science Blog*, 28 May 2017, ujjwalkarn.me/2016/08/11/intuitive-explanation-convnets/, [Accessed 28 Oct. 2017].
- Wicaksono, A. E., Suciati, N., Faticah, C., Uchimura, K., Koutaki, G., 2017, “Modified Convolutional Neural Network Architecture for Batik Motif Image Classification” *IPTEK, Journal of Science*, Vol. 2, No. 1, 2017
- Wikipedia, 2018, “Canny Edge Detector”, Available at: https://en.wikipedia.org/wiki/Canny_edge_detector, [Accessed February 13 2018].