DAFTAR PUSTAKA

Abraham, N., dan Khan, N. M. (2019). A novel focal Tversky *loss* function with improved attention UNet for lesion segmentation. *Proceedings of the IEEE International Symposium on Biomedical Imaging (ISBI)*.

Akobeng, A. K. (2007). Understanding diagnostic tests 1: sensitivity, specificity and predictive values. *Acta Paediatrica*, 96(3), 338-341.

An, Y., Ye, Q., Childs, C. Guo, J. Walsh, J., Dong, R. (2021). Deep convolutional *neural network* for automatic fault recognition from 3D. Computers and Geosciences, 153, 1-11. doi: https://doi.org/10.1016/j.cageo.2021.104776

Bacic, dkk, 2020, The Usefulness of Seismic Surveys for Geotechnical Engineering in Karst: Some Practical Examples. Geosciences 2020, 10(10), 406.

Badrinarayanan, V., Kendall, A., dan Cipolla, R. (2017). SegNet: A deep convolutional encoder-decoder architecture for image segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(12), 2481-2495.

Basir, H, M. Javaherian, A., Yaraki, M, T. (2013). Multi-attribute *ant-tracking* and *neural network* for fault detection: a case study of an Iranian oilfield. Journal of Geophysics and Engineering, 10, 1-5. Doi :10.1088/1742-2132/10/1/015009

Berman, M., Triki, A. R., dan Blaschko, M. B. (2018). The Lovász-Softmax *loss*: A tractable surrogate for the optimization of the intersection-over-union measure in *neural network*s. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 4413-4421.

Bernal, J., Sánchez, J., Vilarino, F., dan Fernández-Esparrach, G. (2015). WCE detection of intestinal lesions: reducing the dataset bias with the use of CNNs. *IEEE Transactions on Medical Imaging*, 35(5), 1202-1211.

Bishop, C. M. (2006). Pattern Recognition and *Machine learning*. Springer.

Brown, A., R., 2004, Interpretation of Three-Dimensional Seismic Data: AAPG Memoir 42, 6th Edition, 534 p.

Chen, L. C., Papandreou, G., Kokkinos, I., Murphy, K., dan Yuille, A. L. (2018). DeepLab: Semantic image segmentation with deep convolutional nets, atrous convolution, and fully connected CRFs. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(4), 834-848.

Chicco, D., dan Jurman, G. (2020). The advantages of the Matthews correlation coefficient (MCC) over F1 score and accuracy in binary classification evaluation. *BMC Genomics*, 21(1), 1-13.

Chopra, S., dan Marfurt, K., 2005, Seismic attributes – A Historical Prespective, Geophysics Vol 70, No 5, p.3SO-28SO, 32 Figs. SEG 75th Anniversary.

Chopra, S., dan Marfurt, K., 2007, Seismic Attributes for Prospect Identification and Reservoir Characterization. SEG Geophysical Development series no.11.

Cunha, A., Pochet, A., Lopes, H., Gattass, M. (2020). Seismic fault detection in real data using transfer learning from a convolutional *neural network* pre-

*train*ed with synthetic seismic data. Computers and Geosciences, 135, 1-6. doi: https://doi.org/10.1016/j.cageo.2019.104344

Davis, J., dan Goadrich, M. (2006). The relationship between Precision-Recall and ROC curves. *Proceedings of the 23rd International Conference on Machine learning*, 233-240.

Drozdzal, M., Vorontsov, E., Chartrand, G., Kadoury, S., dan Pal, C. (2016). The importance of skip connections in biomedical image segmentation. Deep Learning and Data Labeling for Medical Applications, 179-187.

Dumoulin, V., dan Visin, F. (2016). A guide to convolution arithmetic for deep learning. arXiv preprint arXiv:1603.07285.

Dwihusna, N., 2020, Seismic and Well Log Based *Machine learning* Facies Classification in the Panoma-Hugoton Field, Kansas and Raudhatain Field, North Kuwait, Colorado School of Mines.

Everingham, M., Van Gool, L., Williams, C. K., Winn, J., dan Zisserman, A. (2010). The pascal visual object classes (voc) challenge. *International Journal of Computer Vision*, 88(2), 303-338.

Fawcett, T. (2006). "An introduction to ROC analysis." *Pattern Recognition Letters*, 27(8), 861-874. https://doi.org/10.1016/j.patrec.2005.10.010

Gadallah, M., dan R. Fisher. 2005. Applied seismology: A comprehensive guide to seismic theory and application. Houston, Texas: Library of Congress Cataloging in Publication Data.

Gadallah, M., dan R. Fisher. 2009. Exploration Geophysics. Springe.

Garcia-Garcia, A., Orts-Escolano, S., Oprea, S., Villena-Martinez, V., dan Garcia-Rodriguez, J. (2017). A review on deep learning techniques applied to semantic segmentation. *IEEE Transactions on Neural networks and Learning Systems*, 29(10), 3699-3717.

Goodfellow, I., Bengio, Y., dan Courville, A. (2016). Deep Learning. MIT Press.

Gray, S. H., dkk. (2001). Seismic migration in the presence of complex geology. *Geophysics*, *66*(3), 772-789.

Hall, R. and Wilson, M. E. J. (2000). Neogene sutures in eastern Indonesia. *Journal of Asian* Earth Sciences 18, 781-808.

Hall, R., (2009). Sundaland: Basement Character, Structure and Plate Tectonic Development, *Indonesian Pet. Assoc., 33rd Annual Convention Proceeding*.

Hamilton, W. (1979). Tectonics of the Indonesian region. U.*S. Geological Survey Professional Paper*, 1078, 345.

He, K., Zhang, X., Ren, S., dan Sun, J. (2015). Delving deep into rectifiers: Surpassing human-level performance on ImageNet classification. *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, 1026-1034.

Huang, G., Liu, Z., Van Der Maaten, L., dan Weinberger, K. Q. (2017). Densely connected convolutional networks. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 4700-4708.

Hubral, P. (1999). *Exploration geophysics*. SEG.

Islam, M. M. (2023). Application of a Pre-*Train*ed CNN Model for Fault Interpretation. Applied Sciences, 13, 1-9. doi: https://doi.org/10.3390/app132011300

Jones, I. F. (2010). An introduction to velocity model building. *EAGE Publications*.

Kohavi, R. (1995). A study of cross-validation and bootstrap for accuracy estimation and model selection. *Proceedings of the 14th International Joint Conference on Artificial Intelligence*.

Krizhevsky, A., Sutskever, I., dan Hinton, G. E. (2012). Imagenet classification with deep convolutional *neural network*s. Advances in neural information processing systems, 25.

LeCun, Y., Bengio, Y., dan Hinton, G. (2015). Deep learning. Nature, 521(7553), 436-444.

Li, X., dan Fan, H. (2019). *Patch*-based image classification using deep learning. IEEE Transactions on Image Processing, 28(3), 1235-1248.

Lin, T. Y., Goyal, P., Girshick, R., He, K., dan Dollar, P. (2017). *Focal Loss for Dense Object Detection*. IEEE Transactions on Pattern Analysis and Machine Intelligence.

Long, J., Shelhamer, E., dan Darrell, T. (2015). Fully convolutional networks for semantic segmentation. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 3431-3440.

Ma, Y. Z., 2019, Introduction to Geoscience Data Analytics Using *Machine learning*, In Quantitative Geosciences: Data Analytics, Geostatistics, Reservoir Characterization and Modeling, 151-171.

Milletari, F., Navab, N., dan Ahmadi, S. A. (2016). V-Net: Fully convolutional *neural network*s for volumetric medical image segmentation. 2016 *Fourth International Conference on 3D Vision* (3DV), 565-571.

Murphy, K. P. (2012). *Machine learning*: A Probabilistic Perspective. MIT Press.

Nair, V., dan Hinton, G. E. (2010). Rectified linear units improve restricted boltzmann machines. *Proceedings of the 27th international conference on machine learning* (ICML-10), 807-814.

Nguyen, T. T., Wang, J., Jin, R., Park, N. I., Bhaduri, M. B., dan Liu, L. (2014). An efficient feature selection method for microarray data based on mutual information and normalized cuts. International Journal of *Machine learning* and Cybernetics, 5(3), 253-263.

Noh, H., Hong, S., dan Han, B. (2015). Learning deconvolution network for semantic segmentation. *Proceedings of the IEEE International Conference on Computer Vision*, 1520-1528.

Pan, S. J., Yang, Q., dan Han, J. (2019). A comprehensive survey on transfer learning. *IEEE Transactions on Knowledge and Data Engineering*, 22(10), 1345-1359.

Paszke, A., Gross, S., Massa, F., Lerer, A., Bradbury, J., Chanan, G., ... dan Chintala, S. (2019). PyTorch: An imperative style, high-performance deep learning library. *Advances in Neural Information Processing Systems (NeurIPS)*, 32, 8026-8037.

Pereira, L.A.G.R., 2009, Atributos Sísmicos na Caracterização de Reservatórios de Hidrocarbonetos (Seismic Attributes in Hydrocarbon Reservoirs

Characterization), Departamento de Geociencias Universidade de Aveiro, Aveir.

Pormes, D. E., 2009, Interpretasi Seismik 3D untuk Evaluasi dan Penentuan Prospek Hidrokarbon Daerah X, Jawa Barat Utara, FMIPA UI, Indonesia.

Powers, D. M. (2011). Evaluation: From precision, recall and F-measure to ROC, informedness, markedness and correlation. *Journal of Machine learning Technologies*, 2(1), 37-63.

Rahman, M. A., dan Wang, Y. (2016). Optimizing intersection-over-union in deep *neural network*s for image segmentation. *International Symposium on Visual Computing*, 234-244.

Ronneberger, O., Fischer, P., dan Brox, T. (2015). UNet: Convolutional networks for biomedical image segmentation. International Conference on Medical Image Computing and Computer-Assisted Intervention, 234-241.Ruder, S. (2016). An overview of gradient descent optimization algorithms. arXiv preprint arXiv:1609.04747.

Rudyawan, A. dan Hall, R. (2012). Structural reassessment of the Banggai Sula area: No Sorong Fault Zone. *Proceeding Indonesian Petroleum Association*, 36th Annual Convention, IPA12-G-030

Saito, T., dan Rehmsmeier, M. (2015). The Precision-Recall Plot Is More Informative than the ROC Plot When Evaluating Binary Classifiers on Imbalanced Datasets. *PLOS ONE*, 10(3), e0118432. https://doi.org/10.1371/journal.pone.0118432

Salehi, S. S. M., Erdogmus, D., dan Gholipour, A. (2017). Tversky *loss* function for image segmentation using 3D fully convolutional deep networks. *International Workshop on Machine learning in Medical Imaging (MLMI)*.

Sheriff, R. E., dan Geldart, L. P. (1995). *Exploration Seismology* (2nd ed.). Cambridge University Press.

Shorten, C., Khoshgoftaar, T.M., 2019. A survey on Image Data Augmentation for Deep Learning. Journal of Big Data 6. https://doi.org/10.1186/s40537-019-0197-0

Simm, R. dan Bacon, M., 2014, Seismic Amplitude: An Interpreter's Handbook, Cambridge University Press, Cambridge.

Sismanto, 2006, Akuisisi Data Seismik, Yogyakarta: Laboratorium Geofisika Program Studi Geofisika Jurusan Fisika Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada.

Smith, L. N. (2017). Cyclical learning rates for *train*ing *neural network*s. *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 464-472.

Sokolova, M., dan Lapalme, G. (2009). A systematic analysis of performance measures for classification tasks. Information Processing dan Management, 45(4), 427-437.

Sudre, C. H., Li, W., Vercauteren, T., Ourselin, S., dan Cardoso, M. J. (2017). Generalised dice *overlap* as a deep learning *loss* function for highly unbalanced segmentations. *Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support (DLMIA)*, 240-248.

Sudre, C. H., Li, W., Vercauteren, T., Ourselin, S., dan Cardoso, M. J. (2017). Generalised dice *overlap* as a deep learning *loss* function for highly

unbalanced segmentations. *Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support*, 240-248.

Tang, Z., Wu, B., Wu, W., Ma, D. (2023). Fault Detection via 2.5D Transformer UNet with Seismic Data. Remote Sensing, 15, 1-15. doi: https://doi.org/10.3390/rs15041039

Tura, A., dan Etgen, J. (2002). *Seismic data processing*. SEG.

Wang, H., Ceylan, D., Mech, R., dan Kautz, J. (2019). Attentive normalization. *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, 2362-2370.

Wang, S., Si, X., Cai, Z., Cui, Y. (2022). Structural Augmentation in Seismic Data for Fault Prediction. Applied Sciences, 12, 1-15. doi: https://doi.org/10.3390/app12199796

Wang, Z., You, J., Liu, W., Wang, X. (2023). Transformer assisted dual UNet. Frontiers in Earth Science, 1-11. doi: 10.3389/feart.2023.1047626

Wei, X, L., Zhang, C, X., Kim, S, W., Jing, K, L., Wang, Y, J., Xu, S., Xie, Z. (2022). Seismic fault detection using convolutional *neural network*s with focal *loss*. Computer and Geosciences, 158, 1-5. doi: https://doi.org/10.1016/j.cageo.2021.104968

Yan, Z., Zhang, Z., Liu, S. (2021). Improving Performance of Seismic Fault Detection by Fine-Tuning the Convolutional *Neural network* Pre-*Train*ed with Synthetic Samples. Energies, 14, 1-13. doi: https://doi.org/10.3390/en14123650

Yilmaz, O. (2001). *Seismic Data Analysis*. SEG.

Yu, T., Wang, X., Chen, T, J., Ding, C, W. (2022). Fault Recognition Method Based on Attention Mechanism and. Computational Intelligence and Neuroscience, 1-10. doi: https://doi.org/10.1155/2022/9856669

Zhang, Z., dan Sabuncu, M. R. (2018). Generalized cross entropy *loss* for *train*ing deep *neural network*s with noisy labels. *Advances in Neural Information Processing Systems*, 31, 8778-8788.

Zhou, H., dkk. (2009). Prestack depth migration in practice. *Geophysics*, *74*(5), WCA29-WCA41.

Zhou, Y., Cheung, Y. M., dan Xiao, Y. (2018). Image *patch* analysis. Springer International Publishing.

Zhou, Z., Siddiquee, M. M. R., Tajbakhsh, N., dan Liang, J. (2018). Unet++: A nested UNet architecture for medical image segmentation. *Deep Learning in Medical Image Analysis and Multimodal Learning for Clinical Decision Support (DLMIA)*, 3-11.