

DAFTAR PUSTAKA

- Ahn, S. H. (2024), 'Convolution', <https://songho.ca/dsp/convolution/convolution.html>. Accessed: 2024-05-17.
- AI-HLEG (2018), 'A definition of ai: Main capabilities and scientific disciplines'. Accessed: 2023-05-15.
Laman daring: https://ec.europa.eu/futurium/en/system/files/ged/ai_hleg_definition_of_ai_18_december_1.pdf
- Alotaby, W. D. M. (2015), 'Fault interpretation and reservoir characterization of the farewell formation within kerry field, taranaki basin, new zealand'. Includes bibliographical references (pages 54-56).
Laman daring: https://scholarsmine.mst.edu/masters_theses/7458
- Alsadi, H. N. (2017), *Seismic Hydrocarbon Exploration*, Advances in Oil and Gas Exploration & Production, Springer International Publishing, Cham.
Laman daring: <http://link.springer.com/10.1007/978-3-319-40436-3>
- Altinbas, M. D. dan Serif, T. (2022), GUI Element Detection from Mobile UI Images Using YOLOv5, in I. Awan, M. Younas dan A. Poniszewska-Marañda, eds, 'Mobile Web and Intelligent Information Systems', Vol. 13475, Springer International Publishing, Cham, pp. 32-45.
Laman daring: https://link.springer.com/10.1007/978-3-031-14391-5_3
- An, Y., Guo, J., Ye, Q., Childs, C., Walsh, J. dan Dong, R. (2021), 'Deep convolutional neural network for automatic fault recognition from 3d seismic datasets', *Computers & Geosciences* **153**, 104776. doi: <https://doi.org/10.1016/j.cageo.2021.104776>.
- Bahdanau, D., Cho, K. dan Bengio, Y. (2016), 'Neural machine translation by jointly learning to align and translate'.
Laman daring: <https://arxiv.org/abs/1409.0473>

Bönke, W., Alaei, B., Torabi, A. dan Oikonomou, D. (2024), 'Data augmentation for 3d seismic fault interpretation using deep learning', *Marine and Petroleum Geology* **162**, 106706.

Laman daring: <https://www.sciencedirect.com/science/article/pii/S0264817224000187>

Carvajal, R., F., Butler, R. W. dan Bond, C. E. (2023), 'Mapping faults in 3D seismic data – why the method matters', *Journal of Structural Geology* **177**, 104976.

Laman daring: <https://linkinghub.elsevier.com/retrieve/pii/S0191814123001931>

Collobert, R., Kavukcuoglu, K. dan Farabet, C. (2011), Torch7: A matlab-like environment for machine learning, in 'BigLearn, NIPS Workshop', number EPFL-CONF-192376.

Dondurur, D. (2018), Chapter 6 - deconvolution, in D. Dondurur, ed., 'Acquisition and Processing of Marine Seismic Data', Elsevier, pp. 313–363.

Laman daring: <https://www.sciencedirect.com/science/article/pii/B9780128114902000062>

Dooley, D., Scadden, P. dan J., B. M. (2025), 'Taranaki basin summary'. [Online; accessed 3. Jun. 2025].

Laman daring: <https://data.gns.cri.nz/pbe/index.html?content=/mapservice/Content/Petroleum%20Basins/Taranaki%20Basin.html>

Dumoulin, V. dan Visin, F. (2018), 'A guide to convolution arithmetic for deep learning'.

Esteves Alves, G., Torres Fernandez, A. dan Cersosimo, S. (2019), Feasibility studies and elastic inversion applied to geophysical characterization of the offshore Taranaki Basin, New Zealand, Technical report, Heriot-Watt University, Edinburgh, UK.

Laman daring: <https://doi.org/10.13140/RG.2.2.31464.49924>

Faleide, T. S., Braathen, A., Lecomte, I., Mulrooney, M. J., Midtkandal, I., Bugge, A. J. dan Planke, S. (2021), 'Impacts of seismic resolution on fault interpretation: Insights from seismic modelling', *Tectonophysics* **816**, 229008.

Laman daring: <https://www.sciencedirect.com/science/article/pii/S0040195121002900>

Fossen, H. (2010), *Structural Geology*, Vol. 2, Cambridge.

Godoy, D. V. (2025), 'Dvgodoy/PyTorchStepByStep'.

Laman daring: <https://github.com/dvgodoy/PyTorchStepByStep>

Gunawardena, J. (2006), 'Matrix algebra for beginners, Part II', *Matrix algebra for beginners, Part II*.

Laman daring: <https://vcp.med.harvard.edu/papers/matrices-2.pdf>

Hale, D. (2013), 'Dynamic warping of seismic images', *GEOPHYSICS* **78**(2), S105–S115.

Laman daring: <https://library.seg.org/doi/10.1190/geo2012-0327.1>

Hamzah, U. (2016), 'Seismic attributes and their application in faults interpretation of kupe field, taranaki basin, new zealand', *Electronic Journal of Geotechnical Engineering* **21**, 1037–1051.

Harris, C. R., Millman, K. J., van der Walt, S. J., Gommers, R., Virtanen, P., Cournapeau, D., Wieser, E., Taylor, J., Berg, S., Smith, N. J., Kern, R., Picus, M., Hoyer, S., van Kerkwijk, M. H., Brett, M., Haldane, A., del Río, J. F., Wiebe, M., Peterson, P., Gérard-Marchant, P., Sheppard, K., Reddy, T., Weckesser, W., Abbasi, H., Gohlke, C. dan Oliphant, T. E. (2020), 'Array programming with NumPy', *Nature* **585**(7825), 357–362.

Laman daring: <https://www.nature.com/articles/s41586-020-2649-2>

He, K., Zhang, X., Ren, S. dan Sun, J. (2015), 'Deep residual learning for image recognition'.

Laman daring: <https://arxiv.org/abs/1512.03385>

Herath, I. (2022), *Multivariate Regression Using Neural Networks and Sums of Separable Functions*, PhD thesis.

Hu, J., Shen, L., Albanie, S., Sun, G. dan Wu, E. (2019a), 'Squeeze-and-Excitation Networks'.

Laman daring: <http://arxiv.org/abs/1709.01507>

Hu, J., Shen, L., Albanie, S., Sun, G. dan Wu, E. (2019b), 'Squeeze-and-Excitation Networks'.

Laman daring: <http://arxiv.org/abs/1709.01507>

Ismail, A., Radwan, A. A., Leila, M., Abdelmaksoud, A. dan Ali, M. (2023), 'Un-supervised machine learning and multi-seismic attributes for fault and fracture network interpretation in the kerry field, taranaki basin, new zealand', *Geomechanics and Geophysics for Geo-Energy and Geo-Resources* **9**(1), 122.

Laman daring: <https://doi.org/10.1007/s40948-023-00646-9>

Jefkine (2016), 'Backpropagation in convolutional neural networks'. Accessed: 2024-05-20.

Laman daring: <https://www.jefkine.com/general/2016/09/05/backpropagation-in-convolutional-neural-networks/>

Jumat, N., Shalaby, M. R. dan Aminul Islam, M. (2018), 'Integrated reservoir characterization of the paleocene Farewell Formation, Taranaki Basin, New Zealand, using petrophysical and petrographical analyses', *Journal of Petroleum Exploration and Production Technology* **8**(3), 685–701.

Laman daring: <https://doi.org/10.1007/s13202-017-0420-5>

Knox, G. (1982), 'Taranaki basin, structural style and tectonic setting', *New Zealand Journal of Geology and Geophysics - N Z J GEOL GEOPHYS* **25**, 125–140.

Li, F.-F., Johnson, J. dan Yeung, S. (2017), 'Lecture 11: Detection and segmentation'. [Daring; diakses 23. Jul. 2024].

Laman daring: https://cs231n.stanford.edu/slides/2017/cs231n_2017_lecture11.pdf

Ma, X., Yao, G., Zhang, F. dan Wu, D. (2023a), '3-d seismic fault detection using recurrent convolutional neural networks with compound loss', *IEEE Transactions on Geoscience and Remote Sensing* **61**, 1–15.

Ma, X., Yao, G., Zhang, F. dan Wu, D. (2023b), '3-D Seismic Fault Detection Using Recurrent Convolutional Neural Networks With Compound Loss', *IEEE*

Transactions on Geoscience and Remote Sensing **61**, 1–15.

Laman daring: <https://ieeexplore.ieee.org/document/10124454/>

Ming Liang dan Xiaolin Hu (2015), ‘Recurrent convolutional neural network for object recognition’.

Laman daring: <http://ieeexplore.ieee.org/document/7298958/>

Nanda, N. C. (2016), ‘Seismic data interpretation and evaluation for hydrocarbon exploration and production: A practitioner’s guide’, *Seismic Data Interpretation and Evaluation for Hydrocarbon Exploration and Production* .

Laman daring: <https://api.semanticscholar.org/CorpusID:132336440>

Nicol, A., Stagpoole, V. dan Maslen, G. (2004), Structure and petroleum potential of the Taranaki fault play, in ‘2004 New Zealand Petroleum Conference Proceedings’, Auckland, New Zealand, pp. 7–10.

Olah, C. (2015), ‘Understanding LSTM Networks’.

Laman daring: <https://colah.github.io/posts/2015-08-Understanding-LSTMs/>

Paszke, A., Gross, S., Chintala, S., Chanan, G., Yang, E., DeVito, Z., Lin, Z., Desmaison, A., Antiga, L. dan Lerer, A. (2017), ‘Automatic differentiation in PyTorch’.

Laman daring: <https://openreview.net/forum?id=BJJsrnfcZ>

Qadri, S. T., Islam, M. A., Shalaby, M. dan Haque, A. K. M. (2017), ‘Seismic interpretation and structural modelling of kupe field, taranaki basin, new zealand’, *Arabian Journal of Geosciences* **10**.

Rodriguez, A. (2020), *Deep Learning Systems: Algorithms, Compilers, and Processors for Large-Scale Production*, Synthesis Lectures on Computer Architecture, Morgan & Claypool Publishers.

Ronneberger, O., Fischer, P. dan Brox, T. (2015), ‘U-Net: Convolutional Networks for Biomedical Image Segmentation’, (arXiv:1505.04597).

Laman daring: <http://arxiv.org/abs/1505.04597>

SEG Wiki (2022), 'Kerry-3D - SEG Wiki'.

Laman daring: https://wiki.seg.org/wiki/Kerry-3D#Download_data_clicking_links_or_command_line_wget

Sheriff, R. E. dan Geldart, L. P. (2006), *Exploration Seismology*, 2. ed., re-issued in this digitally print. monochrome version edn, Cambridge Univ. Press, Cambridge.

Simm, R. dan Bacon, M. (2014), *Seismic Amplitude: An Interpreter's Handbook*, first edn, Cambridge University Press.

Laman daring: <https://www.cambridge.org/core/product/identifier/9780511984501/type/book>

Tapasvi, B., Kumar, Dr. N. U. dan Gnanamanoharan, Dr. E. (2021), 'A Survey on Semantic Segmentation using Deep Learning Techniques', **9**(5).

Taye, M. M. (2023), 'Theoretical understanding of convolutional neural network: Concepts, architectures, applications, future directions', *Computation* **11**(3).

Laman daring: <https://www.mdpi.com/2079-3197/11/3/52>

Virtanen, P., Gommers, R., Oliphant, T. E., Haberland, M., Reddy, T., Cournapeau, D., Burovski, E., Peterson, P., Weckesser, W., Bright, J., Van Der Walt, S. J., Brett, M., Wilson, J., Millman, K. J., Mayorov, N., Nelson, A. R. J., Jones, E., Kern, R., Larson, E., Carey, C. J., Polat, İ., Feng, Y., Moore, E. W., VanderPlas, J., Laxalde, D., Perktold, J., Cimrman, R., Henriksen, I., Quintero, E. A., Harris, C. R., Archibald, A. M., Ribeiro, A. H., Pedregosa, F., Van Mulbregt, P., SciPy 1.0 Contributors, Vijaykumar, A., Bardelli, A. P., Rothberg, A., Hilboll, A., Kloeckner, A., Scopatz, A., Lee, A., Rokem, A., Woods, C. N., Fulton, C., Masson, C., Häggström, C., Fitzgerald, C., Nicholson, D. A., Hagen, D. R., Pasechnik, D. V., Olivetti, E., Martin, E., Wieser, E., Silva, F., Lenders, F., Wilhelm, F., Young, G., Price, G. A., Ingold, G.-L., Allen, G. E., Lee, G. R., Audren, H., Probst, I., Dietrich, J. P., Silterra, J., Webber, J. T., Slavič, J., Nothman, J., Buchner, J., Kulick, J., Schönberger, J. L., De Miranda Cardoso, J. V., Reimer, J., Harrington, J., Rodríguez, J. L. C., Nunez-Iglesias, J., Kuczynski, J., Tritz, K., Thoma, M., Newville, M., Kümmerer, M., Bolingbroke, M., Tartre, M., Pak, M., Smith, N. J., Nowaczyk, N., Shebanov, N., Pavlyk, O., Brodtkorb, P. A., Lee, P., McGibbon, R. T., Feldbauer, R., Lewis, S., Tygier, S., Sievert, S., Vigna, S., Peterson, S., More, S., Pudlik, T., Oshima, T., Pingel, T. J., Robitaille, T. P., Spura, T., Jones, T. R., Cera, T., Leslie,

T., Zito, T., Krauss, T., Upadhyay, U., Halchenko, Y. O. dan Vázquez-Baeza, Y. (2020), 'SciPy 1.0: Fundamental algorithms for scientific computing in Python', *Nat Methods* **17**(3), 261–272.

Laman daring: <https://www.nature.com/articles/s41592-019-0686-2>

Wang, B., Lei, Y., Yan, T., Li, N. dan Guo, L. (2020), 'Recurrent convolutional neural network: A new framework for remaining useful life prediction of machinery', *Neurocomputing* **379**, 117–129.

Laman daring: <https://www.sciencedirect.com/science/article/pii/S0925231219315024>

Wang, J., Zhang, J.-H., Zhang, J.-L., Lu, F.-M., Meng, R.-G. dan Wang, Z. (2021), 'Research on fault recognition method combining 3d res-unet and knowledge distillation', *Applied Geophysics* **18**(2), 199–212.

Laman daring: <https://doi.org/10.1007/s11770-021-0894-2>

Webster, M., O'Connor, S., Pindar, B. dan Swarbrick, R. (2011), 'Overpressures in the taranaki basin: Distribution, causes, and implications for exploration', *AAPG Bulletin* **95**, 339–370.

Wiki, S. (2018), 'Seismic Resolution: Vertical and Horizontal'.

Laman daring: https://wiki.seg.org/wiki/Seismic_Resolution:_Vertical_and_Horizontal

Wiki, S. (2021), 'Wavelets - Chapter 9'.

Laman daring: https://wiki.seg.org/wiki/Wavelets_-_Chapter_9

Wu, X., Geng, Z., Shi, Y., Pham, N. dan Fomel, S. (2019a), Building realistic structure models to train convolutional neural networks for seismic structural interpretation, in 'SEG Technical Program Expanded Abstracts 2019', Society of Exploration Geophysicists, San Antonio, Texas, pp. 4745–4750.

Laman daring: <https://library.seg.org/doi/10.1190/segam2019-3214282.1>

Wu, X., Geng, Z., Shi, Y., Pham, N. dan Fomel, S. (2019b), 'FaultSeg3D: Using synthetic data sets to train an end-to-end convolutional neural network for 3D

seismic fault segmentation’, *GEOPHYSICS* **84**(3), IM35–IM45.

Laman daring: <https://library.seg.org/doi/10.1190/geo2018-0646.1>

Wu, X. dan Hale, D. (2016), ‘3D seismic image processing for faults’, *GEOPHYSICS* **81**(2), IM1–IM11.

Laman daring: <https://library.seg.org/doi/10.1190/geo2015-0380.1>

Xie, S. dan Tu, Z. (2015), ‘Holistically-nested edge detection’.

Laman daring: <https://arxiv.org/abs/1504.06375>

Xiong, W., Ji, X., Ma, Y., Wang, Y., AlBinHassan, N. M., Ali, M. N. dan Luo, Y. (2018), ‘Seismic fault detection with convolutional neural network’, *GEOPHYSICS* **83**(5), O97–O103.

Laman daring: <https://library.seg.org/doi/10.1190/geo2017-0666.1>

Yu, T., Wang, X., Chen, T. J. dan Ding, C. W. (2022), ‘Fault recognition method based on attention mechanism and the 3d unet’, *Computational Intelligence and Neuroscience* **2022**, 9856669.

Laman daring: <https://doi.org/10.1155/2022/9856669>

Zhang, T., Lin, Y., Liu, K. H., Alhakeem, A. dan Gao, S. S. (2017), ‘Fault Visualization Enhancement using Ant Tracking Technique and its Application in the Taranaki Basin, New Zealand’, p. 2350.