

DAFTAR PUSTAKA

- Aber, J. S., Marzloff, I., & Ries, J. B. (2010). Introduction to Small-Format Aerial Photography. *Small-Format Aerial Photography*, 2007, 1–13. <https://doi.org/10.1016/b978-0-444-53260-2.10001-8>
- Ajit, A., Acharya, K., & Samanta, A. (2020). A Review of Convolutional Neural Networks. *International Conference on Emerging Trends in Information Technology and Engineering, Ic-ETITE 2020*, 1–5. <https://doi.org/10.1109/ic-ETITE47903.2020.049>
- Akar, Ö. (2018). The Rotation Forest algorithm and object-based classification method for land use mapping through UAV images. *Geocarto International*, 33(5), 538–553. <https://doi.org/10.1080/10106049.2016.1277273>
- Albawi, S., Mohammed, T. A. M., & Alzawi, S. (2017). Layers of a Convolutional Neural Network. *Ieee*, 16.
- Alwanda, M. R., Ramadhan, R. P. K., & Alamsyah, D. (2020). Implementasi Metode Convolutional Neural Network Menggunakan Arsitektur LeNet-5 untuk Pengenalan Doodle. *Jurnal Algoritme*, 1(1), 45–56. <https://doi.org/10.35957/algoritme.v1i1.434>
- Alya, N. F., Bioresita, F., Hayati, N., Romadhon, M. A., & Meisajiwa, S. H. (2021). Identifikasi Area Terdampak Oil Seep di Darat dari Data Foto Udara Menggunakan Metode Object Based Image Analysis dan Convolutional Neural Networks (Studi Kasus: Kelurahan “X”). *Jurnal Teknik ITS*, 10(2), 320–325. <https://doi.org/10.12962/j23373539.v10i2.70042>
- Bhatt, C., Kumar, I., Vijayakumar, V., Singh, K. U., & Kumar, A. (2021). The state of the art of deep learning models in medical science and their challenges. *Multimedia Systems*, 27(4), 599–613. <https://doi.org/10.1007/s00530-020-00694-1>
- Chen, X., Yao, X., Zhou, Z., Liu, Y., Yao, C., & Ren, K. (2022). DRs-UNet: A Deep Semantic Segmentation Network for the Recognition of Active Landslides from InSAR Imagery in the Three Rivers Region of the Qinghai–Tibet Plateau. *Remote Sensing*, 14(8). <https://doi.org/10.3390/rs14081848>
- Chitralekha, G., & Roogi, J. M. (2021). A Quick Review of ML Algorithms. *Proceedings of the 6th International Conference on Communication and Electronics Systems, ICCES 2021*. <https://doi.org/10.1109/ICCES51350.2021.9488982>
- Czum, J. M. (2020). Dive Into Deep Learning. *Journal of the American College of Radiology*, 17(5), 637–638. <https://doi.org/10.1016/j.jacr.2020.02.005>
- Damayanti, A. P., & Harintaka, H. (2021). Kajian Keandalan True Orthophoto Untuk Pemetaan Skala Besar 1 : 5.000. *Geoid*, 16(2), 177.

<https://doi.org/10.12962/j24423998.v16i2.8220>

- ESRI. (2022, 7 27). Retrieved from ArcGIS Pro: <https://pro.arcgis.com/en/pro-app/2.8/help/analysis/image-analyst/segmentation.htm>
- ESRI. (2022, 7 27). Retrieved from ArcGIS Pro: <https://pro.arcgis.com/en/pro-app/2.8/tool-reference/image-analyst/train-deep-learning-model.htm#:~:text=Deep%20Learning%20tool.-,To%20train%20a%20model%2C%20the%20input%20images%20must%20be%208,bit%20rasters%20with%20three%20bands.&text=The%20output%20fo>
- ESRI. (2022, 7 27). Retrieved from ArcGIS Pro: <https://pro.arcgis.com/en/pro-app/2.8/tool-reference/image-analyst/classify-pixels-using-deep-learning.htm>
- ESRI. (2022, 7 27). Retrieved from ArcGIS Developers: <https://developers.arcgis.com/rest/services-reference/enterprise/train-deep-learning-model.htm>
- ESRI. (2022, 07 26). *ArcGIS Blog*. Retrieved from Deep learning models in arcgis.learn: <https://www.esri.com/arcgis-blog/products/api-python/analytics/deep-learning-models-in-arcgis-learn/>
- ESRI. (2022, 07 26). *ArcGIS Pro*. Retrieved from Deep learning using the ArcGIS Image Analyst extension: <https://pro.arcgis.com/en/pro-app/2.8/help/analysis/image-analyst/deep-learning-in-arcgis-pro.htm>
- ESRI. (2022, 7 26). *ArcGIS Pro*. Retrieved from Deep learning in ArcGIS Pro: <https://pro.arcgis.com/en/pro-app/latest/help/analysis/deep-learning/deep-learning-in-arcgis-pro.htm>
- ESRI. (2022). *ArcGIS Pro* . Retrieved from <https://pro.arcgis.com/en/pro-app/2.8/help/analysis/image-analyst/deep-learning-in-arcgis-pro.htm>
- Fudloly, A. R. L., Fuad, M. A. Z., & Purwanto, A. D. (2020). Perubahan sebaran dan kerapatan hutan mangrove di Pesisir Pantai Bama, Taman Nasional Baluran menggunakan citra satelit SPOT 4 dan SPOT 6. *Depik*, 9(2), 184–192. <https://doi.org/10.13170/depik.9.2.14494>
- Ganz, S., Adler, P., & Kändler, G. (2020). Forest cover mapping based on a combination of aerial images and sentinel-2 satellite data compared to national forest inventory data. *Forests*, 11(12), 1–20. <https://doi.org/10.3390/f11121322>
- Giang, T. L., Dang, K. B., Le, Q. T., Nguyen, V. G., Tong, S. S., & Pham, V. M. (2020). U-net convolutional networks for mining land cover classification based on high-resolution UAV imagery. *IEEE Access*, 8, 186257–186273. <https://doi.org/10.1109/ACCESS.2020.3030112>

- Guimarães, N., Pádua, L., Marques, P., Silva, N., Peres, E., & Sousa, J. J. (2020). Forestry remote sensing from unmanned aerial vehicles: A review focusing on the data, processing and potentialities. *Remote Sensing*, 12(6). <https://doi.org/10.3390/rs12061046>
- Hapsary, M. S. A., Subiyanto, S., & Firdaus, H. S. (2021). Analisis Prediksi Perubahan Penggunaan Lahan Dengan Pendekatan Artificial Neural Network Dan Regresi Logistik Di Kota Balikpapan. *Jurnal Geodesi UNDIP*, 10(2), 88–97. <https://ejournal3.undip.ac.id/index.php/geodesi/article/view/30637>
- He, K., Zhang, X., Ren, S., & Sun, J. (2016). Deep residual learning for image recognition. *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 2016-Decem*, 770–778. <https://doi.org/10.1109/CVPR.2016.90>
- Hemanth, D. J., & Estrela, V. V. (2017). Deep learning for image processing applications. In *Deep Learning for Image Processing Applications*. <https://doi.org/10.3233/978-1-61499-822-8>
- Iqbal, I. A., Musk, R. A., Osborn, J., Stone, C., & Lucieer, A. (2019). A comparison of area-based forest attributes derived from airborne laser scanner, small-format and medium-format digital aerial photography. *International Journal of Applied Earth Observation and Geoinformation*, 76(November 2018), 231–241. <https://doi.org/10.1016/j.jag.2018.12.002>
- Jiang, X. (2005). Performance evaluation of image segmentation algorithms. *Handbook of Pattern Recognition and Computer Vision, 3rd Edition*, 525–542. https://doi.org/10.1142/9789812775320_0028
- Kartika, T. a. (2017). *Penentuan Training Sampel pada Metode Segmentasi untuk Klasifikasi Sawah dan Non-Sawah Menggunakan Data SPOT-6 (Kabupaten Maros, Sulawesi Selatan)*. repositori.lapan.go.id.
- Khandelwal, R. (2018). Convolutional Neural Network (CNN) Simplified. . *Data driven investor*, 4(11).
- Koh, L. P., & Wich, S. A. (2012). Dawn of drone ecology: Low-cost autonomous aerial vehicles for conservation. *Tropical Conservation Science*, 5(2), 121–132. <https://doi.org/10.1177/194008291200500202>
- Kraff, N. J., Wurm, M., & Taubenbock, H. (2020). Uncertainties of human perception in visual image interpretation in complex urban environments. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 13, 4229–4241. <https://doi.org/10.1109/JSTARS.2020.3011543>
- Kux, H. J. H., & Pinho, C. M. D. de. (2006). Object-oriented analysis of high-resolution satellite images for intra-urban land cover classification: case study in são josé dos campos, são paulo state, brazil. *1st International Conference on Object-Based Image Analysis (OBIA 2006)*, 1–6.

- Lecun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. *Nature*, 521(7553), 436–444. <https://doi.org/10.1038/nature14539>
- Lillesand, Thomas, Ralph W. Kiefer, and J. C. (2015). Remote Sensing and Image Interpretation. 7th Edition. In *John Wiley & Sons* (Vol. 81, Issue 8). <https://www.geokniga.org/bookfiles/geokniga-remote-sensing-and-image-interpretation.pdf>
- Limonova, E., Alfonso, D., Nikolaev, D., & Arlazarov, V. V. (2020). ResNet-like architecture with low hardware requirements. *Proceedings - International Conference on Pattern Recognition*, 6204–6211. <https://doi.org/10.1109/ICPR48806.2021.9413186>
- Lumbantobing, M., Wikantika, K., & Harto, A. B. (2018). Peningkatan Akurasi Interpretasi Foto Udara Menggunakan Metode Pembobotan Berbasis Objek untuk Pembuatan Peta Skala 1:5000. *Reka Geomatika*, 2017(1), 1–11. <https://doi.org/10.26760/jrg.v2017i1.1459>
- Mills, S., & McLeod, P. (2013). Global seamline networks for orthomosaic generation via local search. *ISPRS Journal of Photogrammetry and Remote Sensing*, 75, 101–111. <https://doi.org/10.1016/j.isprsjprs.2012.11.003>
- Mills, S., Park, D., Hide, C., Barnsdale, K., & Pinchin, J. (2009). Integrating GNSS, IMU, and imagery for automatic orthomosaic generation. *22nd International Technical Meeting of the Satellite Division of the Institute of Navigation 2009, ION GNSS 2009*, 6, 3317–3327.
- Naushad, R., Kaur, T., & Ghaderpour, E. (2021). Deep transfer learning for land use and land cover classification: A comparative study. *Sensors*, 21(23), 1–13. <https://doi.org/10.3390/s21238083>
- Negara, T. B., & Harintaka. (2021). Pemodelan Bangunan 3D Menggunakan Footprint Bangunan Hasil Ekstraksi Mask R-CNN dan Dense Point Cloud dari Foto Udara UAV. *Prosiding FIT ISI Vol 1, 2021* (248-260), 1, 248–260.
- Nijhawan, R., Sharma, H., Sahni, H., & Batra, A. (2018). A deep learning hybrid CNN framework approach for vegetation cover mapping using deep features. *Proceedings - 13th International Conference on Signal-Image Technology and Internet-Based Systems, SITIS 2017, 2018-Janua*, 192–196. <https://doi.org/10.1109/SITIS.2017.41>
- Nikken, D., Sirin, S., Salyasari, N. D., Maryanto, A., & Widipaminto, D. A. (2015). *Standardisasi Prosedur Pengambilan Foto Udara dengan Pesawat LSA untuk Pengembangan Payload Inderaja*. 1, 2–3. <http://waindo.co.id/>
- Octori, O., & Cahyono, A. B. (2015). Foto Udara Menggunakan Wahana Uav Jenis Fix Wing. *Geoid*, 11(1), 29. <https://doi.org/10.12962/j24423998.v11i1.1092>
- Onishi, M., & Ise, T. (2021). Explainable identification and mapping of trees using UAV RGB image and deep learning. *Scientific Reports*, 11(1).

<https://doi.org/10.1038/S41598-020-79653-9>

- Parsa, I., & Kartika, T. (2014). *Teknik Segmentasi dan Klasifikasi Berjenjang untuk Pemetaan Lahan Sawah Menggunakan Citra SPOT-6 (Studi Kasus Kabupaten Maros, Sulawesi Selatan)*. Repository Lapan.
- Purwadhi, F., & Sanjoto, T. (2008). Pengantar Interpretasi Citra Penginderaan Jauh. *BAB III: Dasar Interpretasi Citra Penginderaan Jauh*.
- Qiu, C., Mou, L., Schmitt, M., & Zhu, X. X. (2020). Fusing Multiseasonal Sentinel-2 Imagery for Urban Land Cover Classification with Multibranch Residual Convolutional Neural Networks. *IEEE Geoscience and Remote Sensing Letters*, 17(10), 1787–1791. <https://doi.org/10.1109/LGRS.2019.2953497>
- Sakib, S., Ahmed, N., Kabir, A. J., & Ahmed, H. (2019). An Overview of Convolutional Neural Network: Its Architecture and Applications. *Preprints, February*. <https://doi.org/10.20944/preprints201811.0546.v4>
- Salim, H. L., Afi Ati, R. N., & Kepel, T. L. (2018). Pemetaan Dinamika Hutan Mangrove menggunakan drone dan Penginderaan Jauh di P. Rambut, Kepulauan Seribu. *Jurnal Kelautan Nasional*, 13(2), 89–98. <https://doi.org/10.15578/jkn.v13i2.6639>
- Sameen, M. I., Pradhan, B., & Aziz, O. S. (2018). Classification of very high resolution aerial photos using spectral-spatial convolutional neural networks. *Journal of Sensors*, 2018. <https://doi.org/10.1155/2018/7195432>
- Sarker, I. H. (2021). Machine Learning: Algorithms, Real-World Applications and Research Directions. *SN Computer Science*, 2(3), 1–21. <https://doi.org/10.1007/s42979-021-00592-x>
- Sornapudi, S., Stanley, R. J., & Stoecker, W. V. (2018). Challenges in communication from referring clinicians to pathologists in the electronic health record era. *Journal of Pathology Informatics*, 9(1). <https://doi.org/10.4103/jpi.jpi>
- Su, Z., Li, W., Ma, Z., & Gao, R. (2022). An improved U-Net method for the semantic segmentation of remote sensing images. *Applied Intelligence*, 52(3), 3276–3288. <https://doi.org/10.1007/s10489-021-02542-9>
- Sutanto, S. J., & Ridwan, B. W. (2016). Teknologi Drone Untuk Pembuatan Peta Kontur: Studi Kasus Pada Kawasan P3Son Hambalang. *Jurnal Teknik Hidraulik*, 7(2), 179–194.
- Tang, L., Shao, G., & Forest, R. P. A. Á. (2015). Drone remote sensing for forestry research and practices. *Journal of Forestry Research*, 26(4), 791–797. <https://doi.org/10.1007/s11676-015-0088-y>
- Tarigan, V. A., & Sasmito, B. (2019). *Jurnal Geodesi Undip Januari 2019 CITRA LANDSAT 8 Jurnal Geodesi Undip Januari 2019*. 8(1), 328–337.

- Vali, A., Comai, S., & Matteucci, M. (2020). Deep learning for land use and land cover classification based on hyperspectral and multispectral earth observation data: A review. *Remote Sensing*, 12(15). <https://doi.org/10.3390/RS12152495>
- Valueva, M. V., Nagornov, N. N., Lyakhov, P. A., Valuev, G. V., & Chervyakov, N. I. (2020). Application of the residue number system to reduce hardware costs of the convolutional neural network implementation. *Mathematics and Computers in Simulation*, 177, 232–243. <https://doi.org/10.1016/j.matcom.2020.04.031>
- Viswambharan, V. (2020). Using Deep Learning with Imagery in ArcGIS. *ESRI FEDERAL GIS CONFERENCE*. Washington, D.C.: ESRI.
- Vuola, A. O., Akram, S. U., & Kannala, J. (2019). Mask-RCNN and u-net ensembled for nuclei segmentation. *Proceedings - International Symposium on Biomedical Imaging*, 2019-April(Isbi), 208–212. <https://doi.org/10.1109/ISBI.2019.8759574>
- Wijayanti, D. A., & Gunawan, T. (2017). Pemanfaatan Citra Penginderaan Jauh untuk Ekstraksi Parameter Laju Erosi-sedimentasi di Daerah Aliran Sungai Grindulu, Pacitan. *Jurnal Bumi Indonesia*, 6(2). <http://lib.geo.ugm.ac.id/ojs/index.php/jbi/article/view/890%0Ahttp://lib.geo.ugm.ac.id/ojs/index.php/jbi/article/viewFile/890/863>
- Wolf, P., & Dewitt, A. (2000). Elements of Photogrammetry, with Application in GIS, McGraw Hill. In *Boston, MA*. McGraw-Hill Education.
- Wulansari, H. (2017). Uji Akurasi Klasifikasi Penggunaan Lahan dengan Menggunakan Metode Defuzzifikasi Maximum Likelihood Berbasis Citra Alos Avnir-2. *BHUMI: Jurnal Agraria Dan Pertanahan*, 3(1), 98. <https://doi.org/10.31292/jb.v3i1.96>
- Yang, X., Zhang, S., Liu, J., Gao, Q., Dong, S., & Zhou, C. (2021). Deep learning for smart fish farming: applications, opportunities and challenges. *Reviews in Aquaculture*, 13(1), 66–90. <https://doi.org/10.1111/raq.12464>
- Yi, Y., & Zhang, W. (2020). A New Deep-Learning-Based Approach for Earthquake-Triggered Landslide Detection from Singleoral RapidEye Satellite Imagery. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 13, 6166–6176. <https://doi.org/10.1109/JSTARS.2020.3028855>
- Yuan, Y., & Hu, X. (2016). *RANDOM FOREST AND OBJECTED-BASED CLASSIFICATION FOR FOREST PEST EXTRACTION FROM UAV AERIAL IMAGERY Training data Segmentation Features RF model Test data*. *XLI*(July), 1093–1098. <https://doi.org/10.5194/isprsarchives-XLI-B1-1093-2016>