

DAFTAR PUSTAKA

- Aakanksha, Seth, A., & Sharma, S. (2023). Semantic Segmentation. *Journal of Information Technology Research*, 15(1), 1–28. <https://doi.org/10.4018/jitr.299388>
- Ali, A., Archarje, S., Sk, Md. M., Alharthi, S. Z., Chaudhuri, S. S., & Akhunzada, A. (2025). DWSD: Dense Waste Segmentation Dataset. *Data in Brief*, 59(5), 111340. <https://doi.org/10.1016/j.dib.2025.111340>
- Bashkistrova, D., Abdelfattah, M., Zhu, Z., Akl, J., Alladkani, F., Hu, P., Ablavsky, V., Calli, B., Bargal, S. A., & Saenko, K. (2021). ZeroWaste Dataset: Towards Deformable Object Segmentation in Cluttered Scenes. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 21115. <http://arxiv.org/abs/2106.02740>
- Basyuni, M., & Bimantara, Y. (2021). *Mengenal Drone Dalam Sistem Informasi Geografis & Aplikasinya Dalam Penelitian Kehutanan*. <https://www.researchgate.net/publication/352795394>
- Cao, Q., Li, M., Yang, G., Tao, Q., Luo, Y., Wang, R., & Chen, P. (2024). Urban Vegetation Classification for Unmanned Aerial Vehicle Remote Sensing Combining Feature Engineering and Improved DeepLabV3+. *Forests*, 15(2). <https://doi.org/10.3390/f15020382>
- Chen, L.-C., Papandreou, G., Schroff, F., & Adam, H. (2017). Rethinking Atrous Convolution for Semantic Image Segmentation. *ArXiv*, abs/1706.05587. <http://arxiv.org/abs/1706.05587>
- Chen, L.-C., Zhu, Y., Papandreou, G., Schroff, F., & Adam, H. (2018). Encoder-Decoder with Atrous Separable Convolution for Semantic Image Segmentation. *CoRR*, abs/1802.02611. <http://arxiv.org/abs/1802.02611>
- Collins, J., Chand, S., Vanderkop, A., & Howard, D. (2021). A review of physics simulators for robotic applications. Dalam *IEEE Access* (Vol. 9, hlm. 51416–51431). Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ACCESS.2021.3068769>
- DJI. (2022). *DJI Mini 3 - Spesifikasi - DJI*. <https://www.dji.com/id/mini-3/specs>
- Elharrouss, O., Al-Maadeed, S., Subramanian, N., Ottakath, N., Almaadeed, N., & Himeur, Y. (2021). *Panoptic Segmentation: A Review*. <https://doi.org/10.48550/arXiv.2111.10250>

- Feriyanto, D., Laksha, A. D., Ariyanti, S., & Andika, T. H. (2024). Pemanfaatan Teknologi Unmanned Aerial Vehicle (Uav) Quadcopter Sebagai Pemetik Buah Durian. *Aisyah Journal Of Informatics and Electrical Engineering (A.J.I.E.E)*, 6(2). <https://doi.org/https://doi.org/10.30604/jti.v6i2.197>
- Gazali, M., & Widada, A. (2021). Analisis Kualitas Dan Perumusan Strategi Pengendalian Pencemaran Air Sungai Bangkahulu Bengkulu. *Journal of Nursing and Public Health*, 9(1), 54–60. <https://jurnal.unived.ac.id/index.php/jnph/article/view/1441>
- Ghosh, A., Sufian, A., Sultana, F., Chakrabarti, A., & De, D. (2020). Fundamental concepts of convolutional neural network. Dalam *Intelligent Systems Reference Library* (Vol. 172, hlm. 519–567). Springer. https://doi.org/10.1007/978-3-030-32644-9_36
- Hakam, M., W, K. N., H, E. N., N, S. Q. Z., & Novembrianto, R. (2022). Edukasi Pemilahan Sampah Bagi Anak Sekolah Dasar di Desa Giripurno Kecamatan Bumiaji Kota Batu. *Jurnal Pengabdian Masyarakat Teknik Mesin (Abdi-Mesin)*, 2.
- Hakim, M. A., Emawati, H., & Mujahiddin, E. D. (2021). Pemanfaatan Pesawat Tanpa Awak Untuk Pemetaan Dan Identifikasi Penutupan Lahan Pada Kawasan Hutan Pendidikan Unmul. *AGRIFOR : Jurnal Ilmu Pertanian dan Kehutanan*, 20(1), 51–56. <http://ejurnal.untag-smd.ac.id/index.php/AG/article/view/4900>
- Haridas, T. P. M., Kamal, S., Balakrishnan, A. A., Thomas, R., Nezla, N. A., Balakrishnan, K., & Supriya, M. H. (2024). Multiclass Image Segmentation using Deep Residual Encoder-Decoder Models in Highly Turbid Underwater Ambiances. *International Journal of Mathematical, Engineering and Management Sciences*, 9(6), 1510–1530. <https://doi.org/10.33889/IJMEMS.2024.9.6.080>
- Hasibuan, N. H., Suryati, I., Leonardo, R., Risky, A., Ageng, P., & Addauwiyah, R. (2020). Analisa Jenis, Bentuk Dan Kelimpahan Mikroplastik di Sungai Sei Sikambing Medan. *Jurnal Sains dan Teknologi: Jurnal Keilmuan dan Aplikasi Teknologi Industri*, 20(2), 108. <https://doi.org/10.36275/stsp.v20i2.270>
- Helnawan, A., Attamimi, M., & Irfansyah, A. N. (2023). Sistem Segmentasi Jalan dan Objek untuk Kendaraan Otonom Menggunakan Kamera RGB-D. *JURNAL TEKNIK ITS*, 12(1). <https://ejurnal.its.ac.id/index.php/teknik/article/download/110848/7412>
- Indonesia. (2008). *Undang-Undang Republik Indonesia Nomor 18 Tahun 2008 tentang Pengelolaan Sampah*. <https://pslb3.menlhk.go.id/portal/peraturan-nasional>

- Markoulidakis, I., Rallis, I., Georgoulas, I., Kopsiaftis, G., Doulamis, A., & Doulamis, N. (2021). Multiclass Confusion Matrix Reduction Method and Its Application on Net Promoter Score Classification Problem. *Technologies*, 9(4). <https://doi.org/10.3390/technologies9040081>
- Marlina, A., Sari, A. N., Syahira, N. A., Syafarina, P., & Bintang, R. S. (2023). Edukasi Mengenai Pentingnya Pemilahan Serta Pengolahan Sampah Untuk Mengurangi Dampak Negatif Terhadap Lingkungan. *Darmabakti: Jurnal Inovasi Pengabdian dalam Penerbangan*, 4(1).
- Maysanjaya, I. Md. D. (2020). Klasifikasi Pneumonia pada Citra X-rays Paru-paru dengan Convolutional Neural Network. *Jurnal Nasional Teknik Elektro dan Teknologi Informasi*, 9(2), 190–195. <https://doi.org/10.22146/jnteti.v9i2.66>
- Mohajerani, S., & Saeedi, P. (2021). Cloud and Cloud Shadow Segmentation for Remote Sensing Imagery via Filtered Jaccard Loss Function and Parametric Augmentation. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 14, 4254–4266. <https://doi.org/10.1109/JSTARS.2021.3070786>
- Muhadi, N. A., Abdullah, A. F., Bejo, S. K., Mahadi, M. R., & Mijic, A. (2021). Deep learning semantic segmentation for water level estimation using surveillance camera. *Applied Sciences (Switzerland)*, 11(20), 9691. <https://doi.org/10.3390/app11209691>
- Müller, D., Soto-Rey, I., & Kramer, F. (2022). Towards A Guideline For Evaluation Metrics In Medical Image Segmentation. Dalam *arXiv* (arXiv:2202.05273). <https://doi.org/10.48550/arXiv.2202.05273>
- Nggilu, A., Raffi Arrazaq, N., & Thayban, T. (2022). Dampak Pembuangan Sampah di Sungai Terhadap Lingkungan dan Masyarakat Desa Karya Baru. *Jurnal Normalita*, 10(3), 196–202. <https://ejurnal.pps.ung.ac.id/index.php/JN/article/view/1795>
- Niharika, L., Akhil Babu, E., Kasaragadda, G., V Yamini Lakshmi Pratyusha, T. N., Srinivasulu, P., Tech Students, B., & Professor, A. (2024). *Credit Card Fraud Prediction For Banks Using Abnormality And Regression Algorithm With WebApp* (Vol. 20, Nomor 1). www.ijerst.com
- Nugraha, P. Z. E. S., Sunarya, I. M. G., & Maysanjaya, I. M. D. (2023). Binary Semantic Segmentation of Dolphin on UAV Image Using U-Net. *2023 International Seminar on Intelligent Technology and Its Applications: Leveraging Intelligent Systems to Achieve Sustainable Development Goals, ISITIA 2023 - Proceeding*, 728–733. <https://doi.org/10.1109/ISITIA59021.2023.10221152>

- Nurkarim, Y. A., Latipah, A. J., & Suryawan, S. H. (2020). Drone UAV Pemadam Kebakaran Hutan Otomatis (Drone Uav Automatic Forest Fire Extinguisher). *TEKNIMEDIA*, 01(2), 1. <https://doi.org/10.46764/teknimedia.v1i2.17>
- Pangaribuan, H., & Simanjuntak, P. (2021). Analisis Kualitas Perbandingan Citra dengan Metode Segmentasi Citra. *Jurnal Teknik Informatika Unika St. Thomas (JTIUST)*, 06(02), 289–297.
- Purwono, Ma'arif, A., Rahmانيar, W., Fathurrahman, H. I. K., Frisky, A. Z. K., & Haq, Q. M. U. (2022). Understanding of Convolutional Neural Network (CNN): A Review. *International Journal of Robotics and Control Systems*, 2(4), 739–748. <https://doi.org/10.31763/ijrcs.v2i4.888>
- Putri, I. M. A., Sudarti, S., & Yushardi, Y. (2024). Analisis Kualitas Sungai Brantas dan Fungsinya pada Daerah Kota Malang. *SAINTIFIK*, 10(1), 124–129. <https://doi.org/10.31605/saintifik.v10i1.475>
- Ratna, S. (2020). Pengolahan Citra Digital Dan Histogram Dengan Phyton Dan Text Editor Phycharm. *Technologia*, 11(3), 181–186. <https://doi.org/10.31602/tji.v11i3.3294>
- Ratnaningsih, A. T., Setiawan, D., & Siswati, L. (2021). Pemberdayaan Masyarakat Melalui Pemanfaatan Sampah Anorganik Menjadi Produk Kerajinan yang Bernilai Ekonomis. *Dinamisia : Jurnal Pengabdian Kepada Masyarakat*, 5(6), 1500–1506. <https://doi.org/10.31849/dinamisia.v5i6.5292>
- Ritiau, Y. A. P., Agustin, V. L., Maharani, E., Angga, Z. B. B., Firmansyah, M. R. A., & Maulana, F. (2021). Analisis Dampak Pencemaran Sungai Terhadap Kesehatan Lingkungan Di Sungai Desa Cukir, Kabupaten Jombang. *Seminar Nasional Teknologi*, 3(1).
- Sakti, A. N. E., A, M. M. K., Aprilia, D. N., Sudarti, & Trapsilo. (2023). Efektifitas Drone Sebagai Media Penginderaan Jauh Untuk Pemantauan Kesehatan Tanaman. *Jurnal Technopreneur (JTech)*, 11(2), 50–55. <https://doi.org/10.30869/jtech.v11i2.1186>
- Salehin, I., & Kang, D. K. (2023). A Review on Dropout Regularization Approaches for Deep Neural Networks within the Scholarly Domain. Dalam *Electronics (Switzerland)* (Vol. 12, Nomor 14). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/electronics12143106>
- Sathyanarayanan, S. (2024). Confusion Matrix-Based Performance Evaluation Metrics. *African Journal of Biomedical Research*, 4023–4031. <https://doi.org/10.53555/AJBR.v27i4S.4345>
- Sharma, R., Saqib, M., Lin, C. T., & Blumenstein, M. (2022). A Survey on Object Instance Segmentation. *SN Computer Science*, 3(6). <https://doi.org/10.1007/s42979-022-01407-3>

- SIPSN. (2024). *Capaian Kinerja Pengelolaan Sampah*. <https://sipsn.menlhk.go.id/sipsn/>
- Spilsbury, T., & Camps, P. (2019). Don't ignore Dropout in Fully Convolutional Networks. *CoRR*, *abs/1908.09162*. <http://arxiv.org/abs/1908.09162>
- Sudre, C. H., Li, W., Vercauteren, T., Ourselin, S., & Cardoso, M. J. (2017). *Generalised Dice overlap as a deep learning loss function for highly unbalanced segmentations*. https://doi.org/10.1007/978-3-319-67558-9_28
- Sundaresan, A. A., & Solomon, A. A. (2024). Post-Disaster Flooded Region Segmentation Using DeepLabv3+ and Unmanned Aerial System Imagery. *Natural Hazards Research*. <https://doi.org/10.1016/j.nhres.2024.12.003>
- Susim, T., Darujati, C., & Artikel, I. (2021). Pengolahan Citra Untuk Pengenalan Wajah (Face Recognition) Menggunakan OpenCV. *Jurnal Syntax Admiration*, 2(3).
- Taryana, A., Rifa, M., Mahmudi, E., & Bakti, H. (2022). Analisis Kesiapsiagaan Bencana Banjir di Jakarta. *Jurnal Administrasi Negara*, Februari, 13(2), 302–311. <https://jurnal.unpad.ac.id/jane/article/view/37997/16902>
- Terven, J., Cordova-Esparza, D. M., Ramirez-Pedraza, A., Chavez-Urbiola, E. A., & Romero-Gonzalez, J. A. (2023). *Loss Functions and Metrics in Deep Learning*. <http://arxiv.org/abs/2307.02694>
- Teuwen, J., & Moriakov, N. (2020). Convolutional neural networks. Dalam *Handbook of Medical Image Computing and Computer Assisted Intervention* (hlm. 481–501). Elsevier. <https://doi.org/10.1016/B978-0-12-816176-0.00025-9>
- Tharani, M., Amin, A. W., Rasool, F., Maaz, M., Taj, M., & Muhammad, A. (2021). Trash Detection on Water Channels. *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, 13108 LNCS, 379–389. https://doi.org/10.1007/978-3-030-92185-9_31
- Wang, R., Nabney, I., & Golbabaee, M. (2024). *Efficient Hyperparameter Importance Assessment for CNNs*. <http://arxiv.org/abs/2410.08920>
- Wang, W., He, H., & Ma, C. (2023). An Improved Deeplabv3+ Model for Semantic Segmentation of Urban Environments Targeting Autonomous Driving. *International Journal of Computers, Communications and Control*, 18(6). <https://doi.org/10.15837/ijccc.2023.6.5879>
- Waseem Khan, M. (2014). A Survey: Image Segmentation Techniques. *International Journal of Future Computer and Communication*, 89–93. <https://doi.org/10.7763/ijfcc.2014.v3.274>

World Bank. (2023). *World Development Indicators: Population 2022*.
<http://data.worldbank.org/data-catalog/world-development-indicators>

Yang, T., Zhou, S., Xu, A., Ye, J., & Yin, J. (2023). An Approach for Plant Leaf Image Segmentation Based on YOLOV8 and the Improved DEEPLABV3+. *Plants*, 12(19), 3438. <https://doi.org/10.3390/plants12193438>

Yani, M., Irawan, B., & Setiningsih, C. (2019). Application of Transfer Learning Using Convolutional Neural Network Method for Early Detection of Terry's Nail. *Journal of Physics: Conference Series*, 1201(1).
<https://doi.org/10.1088/1742-6596/1201/1/012052>

Yanu, M. F., Yuwono, B., & Boedi, D. P. (2022). *Dasar Pengolahan Digital Edisi 2022*. Lembaga Penelitian dan Pengabdian Masyarakat UPN Veteran Yogyakarta.
<http://eprints.upnyk.ac.id/32890/1/Dasar%20Pengolahan%20Digital%20Edisi%202022.pdf>

