

DAFTAR PUSTAKA

- [1] N. Akhhila, M. R. P. Putra, M. S. D. Saputra, M. A. Dhama, and T. Simangunsong, "Peranan Padang Lamun dalam Menjaga Kelestarian Ekosistem Laut Dangkal," *MAIYAH*, vol. 2, no. 4, p. 337, Dec. 2023, doi: 10.20884/1.maiyah.2023.2.4.10058.
- [2] M. A. Khalifa, M. Saad, P. Santoso, N. W. Prabowo, A. S. Jasmine, and E. C. Dewantara, "Identification of the Presence of Dugong, Seagrass Habitat, and Threats in the Waters of Banten Province," *Aurelia Journal*, vol. 6, no. 2, p. 295, Oct. 2024, doi: 10.15578/aj.v6i2.15021.
- [3] Luthvi Nurwulandari, T. Apriadi, and A. Zulfikar, "Estimation of Phosphorus Storage in Seagrass in the Coastal Waters of Eastern and Northern Bintan Island," *Journal of Marine and Coastal Science*, vol. 14, no. 3, pp. 144–163, Sep. 2025, doi: 10.20473/jmcs.v14i3.72783.
- [4] A. H. Nugraha, I. P. Syahputra, I. W. E. Dharmawan, U. Y. Arbi, B. Hermanto, F. Kurniawan, S. Roni, G. Wibisono, and A. Rivani, "Sebaran Jenis dan Kondisi Tutupan Lamun di Perairan Kepulauan Riau," *J. Mar. Res.*, vol. 12, no. 3, pp. 431–438, Jul. 2023, doi: 10.14710/jmr.v12i3.36274.
- [5] R. D. Putra, R. P. Handayani, F. Idris, M. P. Suhana, and A. H. Nugraha, "Pemetaan Luasan Ekosistem Lamun Menggunakan Citra Sentinel-2A Tahun 2018 Dan Tahun 2020 Di Perairan Desa Pengudang, Pulau Bintan," *Buletin Oseanografi Marina*, vol. 12, no. 3, pp. 403–412, Oct. 2023, doi: 10.14710/buloma.v12i3.39205.
- [6] S. Rahman, A. Rahardjanto, and H. Husamah, *Mengenal Padang Lamun (Seagrass Beds)*. Malang: Dreamlitera, 2022. [Online]. Available: www.dreamlitera.com
- [7] U. Nawaz, M. Anees-ur-Rahaman, and Z. Saeed, "A Survey of Deep Learning Approaches for the Monitoring and Classification of Seagrass," *Ocean Science Journal*, vol. 60, no. 2, Jun. 2025, doi: 10.1007/s12601-025-00213-1.
- [8] M. K. Noman, S. M. S. Islam, J. Abu-Khalaf, S. M. J. Jalali, and P. Lavery, "Improving accuracy and efficiency in seagrass detection using state-of-the-

- art AI techniques,” *Ecol. Inform.*, vol. 76, Sep. 2023, doi: 10.1016/j.ecoinf.2023.102047.
- [9] M. M. Zayed and M. Shokair, “Modeling and simulation of optical wireless communication channels in IoUT considering water types turbulence and transmitter selection,” *Sci. Rep.*, vol. 15, no. 1, Dec. 2025, doi: 10.1038/s41598-025-10935-w.
- [10] R. Yang, “Underwater Object Detection Using YOLOv8 Enhanced with Region-based Feature Aggregation Attention,” *International Journal of Computer Science and Information Technology*, vol. 7, no. 1, pp. 44–49, Aug. 2025, doi: 10.62051/ijcsit.v7n1.06.
- [11] E. Syahrudin, E. Utami, and A. D. Hartanto, “YOLOv8-Based Distance Estimation for Blind Navigation: Performance Comparison of OpenCV and Coordinate Attention Techniques,” *CommIT Journal*, vol. 19, no. 1, pp. 45–57, 2025.
- [12] C. Charleen and G. P. Kusuma, “Evaluation of Deep Learning Models for Detection of Indonesian Rupiah,” *International Journal of Computing and Digital Systems*, vol. 16, no. 1, pp. 315–327, Jul. 2024, doi: 10.12785/ijcds/160125.
- [13] Y. S. Deshmukh, R. G. Tambe, R. D. Chintamani, S. S. Bhosale, and S. Muthuraj, “Seagrass Detection and Classification from Underwater Images Using Deep Transfer Learning,” *Advances in Nonlinear Variational Inequalities*, vol. 28, no. 1s, p. 129, 2025, [Online]. Available: <https://internationalpubs.com>
- [14] M. Wittenhagen, “Comparative analysis of machine learning models for real-time object detection,” *Journal of Computer and Forensic Sciences*, vol. 4, no. 1, pp. 3–19, 2025, doi: 10.5937/jcfs4-58032.
- [15] S. Suyatno, Y. Natali, N. Reza Fachrur Rozi, M. Roihan, P. Dorand, and N. Ghani, “Smart Home Security System Using Object Recognition with the EfficientDet Algorithm: A Real-Time Approach,” *International Journal of Engineering Continuity*, vol. 4, no. 1, pp. 248–270, Aug. 2025, doi: 10.58291/ijec.v4i1.400.

- [16] P. Pramukti and R. Setiawan, "Implementasi Algoritma YOLOv8 (You Only Look Once) Untuk Deteksi Jenis Buah Pisang Secara Real-Time," *SANTIKA: Jurnal Ilmiah Sains dan Teknologi*, vol. 15, pp. 2088–5407, 2025.
- [17] D. Triyanto, M. Zidan, M. Wahyudi, L. Pujiastuti, and Sumanto, "Pengembangan Sistem Deteksi Objek Botol Real-Time dengan YOLOv8 untuk Aplikasi Vision," *Journal Computer Science*, vol. 3, no. 1, 2024.
- [18] D. D. Mardini, A. Maulana, F. Lestari, M. Melati, and R. Hertadi, "Pengenalan Ekosistem Padang Lamun," *Bina Bahari*, vol. 2, no. 2, 2023, doi: 10.26418/binabahari.v2i2.34.
- [19] Y. Matsuzaka and R. Yashiro, "AI-Based Computer Vision Techniques and Expert Systems," Mar. 01, 2023, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/ai4010013.
- [20] S. Ayankoso and P. Olejnik, "Time-Series Machine Learning Techniques for Modeling and Identification of Mechatronic Systems with Friction: A Review and Real Application," *Electronics (Switzerland)*, vol. 12, no. 17, Sep. 2023, doi: 10.3390/electronics12173669.
- [21] A. Zafar, N. Saba, A. Arshad, A. Alabrah, S. Riaz, M. Suleman, S. Zafar, and M. Nadeem, "Convolutional Neural Networks: A Comprehensive Evaluation and Benchmarking of Pooling Layer Variants," *Symmetry (Basel)*, vol. 16, no. 11, Nov. 2024, doi: 10.3390/sym16111516.
- [22] M. A. R. Ramadhan, T. A. N. Ananta, A. A. Zakkyfriza, I. V. H, and Y. N. Fauzan, "Perbandingan Jumlah Layer Pada Convolutional Neural Network Untuk Meningkatkan Akurasi Dalam Klasifikasi Gambar," *Jurnal Riset Sistem Informasi dan Teknik Informatika*, vol. 2, no. 5, 2024, doi: 10.61132/mercurius.v2i4.301.
- [23] K. R. Wardani and L. Leonardi, "Klasifikasi Penyakit pada Daun Anggur menggunakan Metode Convolutional Neural Network," *Jurnal Tekno Insentif*, vol. 17, no. 2, pp. 112–126, Oct. 2023, doi: 10.36787/jti.v17i2.1130.
- [24] B. Karnadi, C. Lubis,) Agus, and B. Dharmawan, "Integrasi Metode Convolutional Neural Networks dengan Arsitektur Model PoseNet untuk Pengembangan Sistem Klasifikasi Gerakan serta Monitoring Repetisi pada

- Olahraga Bulu Tangkis,” *Jurnal Ilmu Komputer dan Sistem Informasi*, Jan. 2024, doi: 10.24912/jiksi.v12i1.28191.
- [25] A. H. Ali, M. G. Yaseen, M. Aljanabi, and S. A. Abed, “Transfer Learning: A New Promising Techniques,” *Mesopotamian Journal of Big Data*, vol. 2023, pp. 29–30, Dec. 2023, doi: 10.58496/MJBD/2023/004.
- [26] G. D. Deepak and S. K. Bhat, “Optimization of deep learning-based faster R-CNN network for vehicle detection,” *Sci. Rep.*, vol. 15, no. 1, Dec. 2025, doi: 10.1038/s41598-025-22828-z.
- [27] M. Taşyürek and C. Öztürk, “A fine-tuned YOLOv5 deep learning approach for real-time house number detection,” *PeerJ Comput. Sci.*, vol. 9, 2023, doi: 10.7717/PEERJ-CS.1453.
- [28] M. Jenkins, K. A. Franklin, M. A. C. Nicoll, N. C. Cole, K. Ruhomaun, V. Tatayah, and M. Mackiewicz, "Improving Object Detection for Time-Lapse Imagery Using Temporal Features in Wildlife Monitoring," *Sensors*, vol. 24, no. 24, Dec. 2024, doi: 10.3390/s24248002.
- [29] B. Fan and X. Song, “A Review of Deep Learning Based Object Detection Algorithms,” *Journal of Engineering Research and Reports*, vol. 26, no. 11, pp. 88–99, Oct. 2024, doi: 10.9734/jerr/2024/v26i111316.
- [30] Y. Ye, X. Ren, B. Zhu, T. Tang, X. Tan, Y. Gui, and Q. Yao, "An Adaptive Attention Fusion Mechanism Convolutional Network for Object Detection in Remote Sensing Images," *Remote Sens. (Basel)*, vol. 14, no. 3, p. 516, Jan. 2022, doi: 10.3390/rs14030516.
- [31] M. Tan, R. Pang, and Q. V. Le, “EfficientDet: Scalable and Efficient Object Detection,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, IEEE, Jul. 2020. [Online]. Available: <http://arxiv.org/abs/1911.09070>
- [32] C. Xia, W. Ni, K. Jiang, and X. Li, "A Real-Time Detection Model for Identification of Citrus During Different Growth Stages in Orchards," *INMATEH - Agricultural Engineering*, vol. 68, no. 3, pp. 372–381, 2022, doi: 10.35633/inmateh-68-37.

- [33] S. Jain, "DeepSeaNet: Improving Underwater Object Detection using EfficientDet," *arXiv preprint arXiv:2306.06075*, 2023, Accessed: Mar. 01, 2026. [Online]. Available: <https://arxiv.org/abs/2306.06075>
- [34] S. F. Ahmed, M. S. B. Alam, M. Hassan, M. R. Rozbu, T. Ishtiak, N. Rafa, M. Mofijur, A. B. M. S. Ali, and A. H. Gandomi, "Deep learning modelling techniques: current progress, applications, advantages, and challenges," *Artif. Intell. Rev.*, vol. 56, no. 11, pp. 13521–13617, Nov. 2023, doi: 10.1007/s10462-023-10466-8.
- [35] S. S. A. Zaidi, M. S. Ansari, A. Aslam, N. Kanwal, M. Asghar, and B. Lee, "A Survey of Modern Deep Learning based Object Detection Models," *Digit. Signal Process.*, vol. 126, May 2022, [Online]. Available: <http://arxiv.org/abs/2104.11892>
- [36] S. Liu, F. Shao, W. Chu, J. Dai, and H. Zhang, "An Improved YOLOv8-Based Lightweight Attention Mechanism for Cross-Scale Feature Fusion," *Remote Sens. (Basel)*, vol. 17, no. 6, Mar. 2025, doi: 10.3390/rs17061044.
- [37] R. Sapkota and M. Karkee, "Ultralytics YOLO Evolution: An Overview of YOLO26, YOLO11, YOLOv8 and YOLOv5 Object Detectors for Computer Vision and Pattern Recognition," *arXiv preprint*, Mar. 2026, doi: 10.48550/arXiv.2510.09653.
- [38] J. Terven, D. M. Córdova-Esparza, and J. A. Romero-González, "A Comprehensive Review of YOLO Architectures in Computer Vision: From YOLOv1 to YOLOv8 and YOLO-NAS," *Mach. Learn. Knowl. Extr.*, vol. 5, no. 4, pp. 1680–1716, Dec. 2023, doi: 10.3390/make5040083.
- [39] Q. Zheng, Z. Luo, M. Guo, X. Wang, R. Wu, Q. Meng, and G. Dong, "HGO-YOLO: Advancing Anomaly Behavior Detection with Hierarchical Features and Lightweight Optimized Detection," *arXiv preprint*, 2024.
- [40] M. N. I. Muhlashin and A. Stefanie, "Klasifikasi Penyakit Mata Berdasarkan Citra Fundus Menggunakan YOLO V8," *JATI (Jurnal Mahasiswa Teknik Informatika)*, vol. 7, no. 2, pp. 1363–1368, 2023, doi: 10.36040/jati.v7i2.6927.
- [41] A. R. Putri, A. Irwansyah, F. Arifin, E. Purwanti, and C. Kusuma Wijaya, "Real-Time Embedded Vision System for Road Damage Detection Utilizing

- Deep Learning,” *INTERNATIONAL JOURNAL ON INFORMATICS VISUALIZATION*, pp. 1971–1979, 2025, [Online]. Available: www.joiv.org/index.php/joiv
- [42] Y. Lu, J. Zhang, Q. Chen, C. Xu, M. Irfan, and Z. Chen, “AquaYOLO: Enhancing YOLOv8 for Accurate Underwater Object Detection for Sonar Images,” *J. Mar. Sci. Eng.*, vol. 13, no. 1, Jan. 2025, doi: 10.3390/jmse13010073.
- [43] N. Ravi, V. Gabeur, Y.-T. Hu, R. Hu, C. Ryali, T. Ma, H. Khedr, R. Rädle, C. Rolland, L. Gustafson, E. Mintun, J. Pan, K. V. Alwala, N. Carion, C.-Y. Wu, R. Girshick, P. Dollár, and C. Feichtenhofer, "SAM 2: Segment Anything in Images and Videos," in *International Conference on Learning Representations* 2025, 2025. [Online]. Available: <https://github.com/facebookresearch/sam2>
- [44] L. Zhang, Y. Sun, and W. Wei, “Mind the Gap: Polishing Pseudo Labels for Accurate Semi-supervised Object Detection,” in *Proceedings of the AAAI Conference on Artificial Intelligence*, 2023, pp. 3463–3471. [Online]. Available: <https://github.com/snowdusky/DualPolishLearning>.
- [45] Y.-C. Liu, C.-Y. Ma, and Z. Kira, “Unbiased Teacher v2: Semi-supervised Object Detection for Anchor-free and Anchor-based Detectors,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022, pp. 9819–9828.