

DAFTAR PUSTAKA

- Akbarurrasyid, M., Sutisna, R.R., Astiyani, W.P., Sudinno, D. 2024. Budidaya Udang Vaname (*Litopenaeus vannamei*): Teknologi, Pertumbuhan, Kelangsungan Hidup dan Kelayakan Usaha. *Jurnal Perikanan Unram*, **14**(1): 390–401. <https://doi.org/10.29303/jp.v14i1.794>
- Arnita, Marpaung, F., Suryani, N., Cyra Nabila, R. 2022. Computer Vision dan Pengolahan Citra Digital. *Pustaka Aksara*.
- Asmak, S.Y., Rizaldi, D.D., Saputra, R.A.F., Abseno, A.P., Hananto, V.R., Oktarina, E.S. 2024. A Mobile App for Counting Shrimp Larvae Based on the YOLO V5 Method. *COMPLETE*, **5**(2). <https://doi.org/10.52435/complete.v5i2.647>
- Chudlari, M.S., Muhajir, M., Sumaryam, S. 2024. Pengaruh Padat Tebar Terhadap Prevalensi Penyakit EHP (Enterocytozoon Hepatopenaei) Pada Udang Vaname (*Litopenaeus Vannamei*) Mulai PL8-DOC40 di Bak-Bak Percobaan. *Ranah Research : Journal of Multidisciplinary Research and Development*, **7**(1): 17–25. <https://doi.org/10.38035/rrj.v7i1.1100>
- Duan, H., Wang, J., Zhang, Y., Wu, X., Peng, T., Liu, X., Deng, D. 2024. Shrimp Larvae Counting Based on Improved YOLOv5 Model with Regional Segmentation. *Sensors*, **24**(19): 6328. <https://doi.org/10.3390/s24196328>
- Hsieh, Y.-K., Hsieh, J.-W., Hu, W.-C., Tseng, Y.-C. 2024. AIoT-Based Shrimp Larvae Counting System Using Scaled Multilayer Feature Fusion Network. *IEEE Internet Things J.*, **11**(22): 36438–36451. <https://doi.org/10.1109/JIOT.2024.3410539>
- Hu, W.-C., Chen, L.-B., Hsieh, M.-H., Ting, Y.-K. 2023. A Deep-Learning-Based Fast Counting Methodology Using Density Estimation for Counting Shrimp Larvae. *IEEE Sensors J.*, **23**(1): 527–535. <https://doi.org/10.1109/JSEN.2022.3223334>
- IBM Data & AI Team. 2023. AI vs. machine learning vs. deep learning vs. neural networks: What's the difference?, International Business Machines Corporation (IBM). <https://www.ibm.com/think/topics/ai-vs-machine-learning-vs-deep-learning-vs-neural-networks>
- Iskandar, A., Rizki, A., Hendriana, A., Darmawangsa, G.M., Abuzzar, A., Khoerullah, K., Muksin, M. 2021. Manajemen Pembenihan Udang Vaname *Litopenaeus vannamei* di PT Central Proteina Prima, Kalianda, Lampung Selatan. *Jurnal Perikanan Terapan*, **2**(1): 1–8. <https://doi.org/10.25181/peranan.v2i1.1655>
- Ju, R.-Y., Cai, W. 2023. Fracture detection in pediatric wrist trauma X-ray images using YOLOv8 algorithm. *Sci Rep*, **13**(1): 20077. <https://doi.org/10.1038/s41598-023-47460-7>
- Kaewchote, J., Janyong, S., Limprasert, W. 2018. Image recognition method using Local Binary Pattern and the Random forest classifier to count post larvae shrimp. *Agriculture and Natural Resources*, **52**(4): 371–376. <https://doi.org/10.1016/j.anres.2018.10.007>

- Kamthang, V., Anekboon, K. 2024. White Leg Shrimp Larvae Counting System. 2024 16th International Conference on Knowledge and Smart Technology (KST), 201–206. <https://doi.org/10.1109/KST61284.2024.10499682>
- Kesvarakul, R., Chianrabutra, C., Chianrabutra, S. 2017. Baby Shrimp Counting via Automated Image Processing., in: Proceedings of the 9th International Conference on Machine Learning and Computing. Presented at the ICMLC 2017: 2017 the 9th International Conference on Machine Learning and Computing, Association for Computing Machinery. New York, NY, USA, pp. 352–356. <https://doi.org/10.1145/3055635.3056652>
- Lanke, R.K.L., Bhattacharyya, D.B., K M, K.R.K.M. 2023. ShrimpView: A Versatile Dataset for Shrimp Detection and Recognition. <https://doi.org/10.21227/FP5F-XP20>
- Leonnil, a, G., Vina, A. 2023. YOLO Performance Metrics., Ultralytics. <https://docs.ultralytics.com/guides/yolo-performance-metrics/>
- Lestari, D.F., Syukriah, S. 2020. Manajemen Stres pada Ikan untuk Akuakultur Berkelanjutan. *JAMI: Jurnal Ahli Muda Indonesia*, **1**(1): 96–105. <https://doi.org/10.46510/jami.v1i1.23>
- Lester, D., Gao, J., Sutphin, S., Zhu, P., Narman, H., Alzarrad, A. 2025. A YOLO-Based Semi-Automated Labeling Approach to Improve Fault Detection Efficiency in Railroad Videos. <https://doi.org/10.48550/arXiv.2504.01010>
- Li, X., Liu, R., Wang, Z., Zheng, G., Lv, J., Fan, L., Guo, Y., Gao, Y. 2023. Automatic Penaeus Monodon Larvae Counting via Equal Keypoint Regression with Smartphones. *Animals*, **13**(12): 2036. <https://doi.org/10.3390/ani13122036>
- Liu, C., Albrecht, C.M., Wang, Y., Li, Q., Zhu, X.X. 2024. AIO2: Online Correction of Object Labels for Deep Learning with Incomplete Annotation in Remote Sensing Image Segmentation. *Arxiv*. <https://doi.org/10.48550/arXiv.2403.01641>
- Liu, D., Xu, B., Cheng, Y., Chen, H., Dou, Y., Bi, H., Zhao, Y. 2023. Shrimpsed_Net: Counting of Shrimp Seed Using Deep Learning on Smartphones for Aquaculture. *IEEE Access*, **11**: 85441–85450. <https://doi.org/10.1109/ACCESS.2023.3302249>
- Muntaner-Gonzalez, C., Nadal-Martínez, A., Martín-Abadal, M., Gonzalez-Cid, Y. 2025. Automatic deep learning-based pipeline for Mediterranean fish segmentation. *Front. Mar. Sci.*, **12**: 1525524. <https://doi.org/10.3389/fmars.2025.1525524>
- Naminas, K. 2025. Object Detection: Key Metrics for Computer Vision Performance., Label Your Data. <https://labelyourdata.com/articles/object-detection-metrics>
- Nath, S., Haldar, C. 2020. Effects of Stress among Shrimp Post-Larvae stocked at High Stocking Density in Nursery Culture System: A Review. *Int.J.Curr.Microbiol.App.Sci*, **9**(5): 2987–2996. <https://doi.org/10.20546/ijcmas.2020.905.354>

- Nguyen, K.-T., Nguyen, C.-N., Wang, C.-Y., Wang, J.-C. 2020. Two-Phase Instance Segmentation for Whiteleg Shrimp Larvae Counting. *2020 IEEE International Conference on Consumer Electronics (ICCE)*, 1–3. <https://doi.org/10.1109/ICCE46568.2020.9043075>
- Nguyen, X.-T., Mac, T.-T., Nguyen, Q.-D., Bui, H.-A. 2025. An Industrial System for Inspecting Product Quality Based on Machine Vision and Deep Learning. *Vietnam J. Comp. Sci.*, **0**(0): 1–16. <https://doi.org/10.1142/S2196888825400032>
- Nurwakit, A. 2020. Literatur Riview Transliterasi Hurub Arab ke Latin. *SAINTEKBU*, **12**(2): 58–67. <https://doi.org/10.32764/sainstekbu.v12i2.816>
- Oktarina, E.S., Kusumawati, W.I., Musayyanah. 2024. Implementasi Aplikasi Penghitung Benur dengan Menggunakan HP Android pada Instalasi Budidaya Air Payau Banjarkemuning, Sedati, Sidoarjo. *Society: Jurnal Pengabdian Masyarakat*, **3**(4): 249–255.
- Pragati Baheti. 2021. A Newbie-Friendly Guide to Transfer Learning., V7 labs. https://www-v7labs-com.translate.goog/blog/transfer-learning-guide?_x_tr_sl=en&_x_tr_tl=id&_x_tr_hl=id&_x_tr_pto=imgs
- Putri, T., Supono, S., Putri, B. 2020. Pengaruh Jenis Pakan Buatan dan Alami Terhadap Pertumbuhan dan Kelangsungan Hidup Larva Udang Vaname (*Litopenaeus vannamei*). *Jurnal Akuakultur Rawa Indonesia*, **8**(2): 176–192. <https://doi.org/10.36706/jari.v8i2.12760>
- Rachmadhany, S.P., Abdat, R., Prayogi, A.R.Y. 2021. Aquaculture Base Group (ABG) as an Effort to Develop a Sustainable Fisheries Economy. *Journal Aquaculture Science*, **6**(1): 44–51. <https://doi.org/10.31093/joas.v6i1IS.155>
- Rahmah, A., Sepriyanti, N., Zikri, M.H., Ambarani, I., Shahr, M.Y.B. 2023. Implementation of Support Vector Machine and Random Forest for Heart Failure Disease Classification. *PREDATECS*, **1**(1): 34–40. <https://doi.org/10.57152/predatecs.v1i1.816>
- Ratnawati, E., Mustafa, A., Tarunamulia. 2020. Keragaan Panti Benih Udang Skala Kecil dan Besar di Kecamatan Supra Kabupaten Pinrang. *Media Akuakultur*, **15**(2): 79–88.
- Redmon, J., Divvala, S., Girshick, R., Farhadi, A. 2015. You Only Look Once: Unified, Real-Time Object Detection. *Arxiv*. <https://doi.org/10.48550/ARXIV.1506.02640>
- Riani, I., Annaastasia, N., Siddiq, A., Rifandi, Patiung, S.M. 2022. Dampak Padat Tebar Terhadap Produksi dan Pendapatan Budidaya Udang Vaname di Kabupaten Kolaka. *Jurnal Bisnis Perikanan FPIK UHO*, **6**(1): 38–44.
- Romadhona, I.F., Meydiantika Anggia Putri, T.F., Cahyaningtyas, Y.S., Diansyah, B.R., Firmansyah, M.H. 2024. Sistem Deteksi Dini Berbasis Artificial Intelligence Sebagai Solusi Inovatif Budidaya Benur Vaname. *Jurnal Inovasi Informatika dan Teknologi Informasi (JIITU)*, **1**(1): 1–8. <https://doi.org/10.25047%2Fjiitu.v1i01.5499>

- Satrio, R., Irfani, Y.N., Lasut, M.R.S. 2023. Hambatan Dan Upaya Meningkatkan Ekspor Udang Di Indonesia. *ECOMA: Journal of Economics and Management*, **1**(3): 123-131. <https://doi.org/10.55681/ecoma.v1i3.28>
- Siska Armalivia, Muhammad Abdillah Rahmat, Thiara Tri Funny Manguma, Rahmawati. 2024.a. Analisis Kinerja Algoritma YOLO dalam Penghitungan Benih Udang. *Jurnal Ilmiah Sistem Informasi dan Teknik Informatika (JISTI)*, **7**(1): 161-169. <https://doi.org/10.57093/jisti.v7i1.202>
- Siska Armalivia, Muhammad Abdillah Rahmat, Thiara Tri Funny Manguma, Rahmawati. 2024.b. Analisis Kinerja Algoritma YOLO dalam Penghitungan Benih Udang. *jisti*, **7**(1): 161-169. <https://doi.org/10.57093/jisti.v7i1.202>
- Solahudin, M., Slamet, W., Dwi, A.S. 2018. Vaname (*Litopenaeus vannamei*) Shrimp Fry Counting Based on Image Processing Method. *IOP Conf. Ser.: Earth Environ. Sci.*, **147**: 012014. <https://doi.org/10.1088/1755-1315/147/1/012014>
- Wardani, K.R., Leonardi, L. 2023. Klasifikasi Penyakit pada Daun Anggur menggunakan Metode Convolutional Neural Network. *Jurnal Tekno Insentif*, **17**(2): 112-126. <https://doi.org/10.36787/jti.v17i2.1130>
- Yulianingsih, T., Budiyanto, Riani, I., Hamzah, M., Mansyur, A., Sarifin, A. 2022. Kajian produksi budidaya udang vaname di Kabupaten Kolaka. *J. Sosial Ekonomi Perikanan FPIK UHO*, **7**(4): 223-232.
- Yuni, W., Budiyanto, Riani, I. 2018. Faktor-Faktor yang Mempengaruhi Produksi Budidaya Udang Vaname (*Litopenaeus vannamei*) di Kecamatan Tinanggea Kabupaten Konawe Selatan. *J. Sosial Ekonomi Perikanan FPIK UHO*, **3**(2): 127-136.
- Zhang, G., Shen, Z., Li, D., Zhong, P., Chen, Y. 2024. CAGNet: an improved anchor-free method for shrimp larvae detection in intensive aquaculture. *Aquacult Int*, **32**(5): 6153-6175. <https://doi.org/10.1007/s10499-024-01460-0>
- Zhang, Z., Zhang, X. 2023. A Review of Research on Generalization Error Analysis of Deep Learning Models. *2023 International Conference on Image Processing, Computer Vision and Machine Learning (ICICML)*, 906-912. <https://doi.org/10.1109/ICICML60161.2023.10424837>
- Zhou, C., Yang, G., Sun, L., Wang, S., Song, W., Guo, J. 2024. Counting, locating, and sizing of shrimp larvae based on density map regression. *Aquacult Int*, **32**(3): 3147-3168. <https://doi.org/10.1007/s10499-023-01316-z>