

REFERENCES

- Alam, M. M., & Priti, S. I. (2024). *Adaptive Hybrid Software Project Management in Bangladesh's Software Industry: Navigating the Cultural Transformation and Ensuring On-Time Delivery*. <http://ar.iub.edu.bd/handle/11348/1001>
- Bachimanchi, H., Pinder, M. I. M., Robert, C., De Wit, P., Havenhand, J., Kinnby, A., Midtvedt, D., Selander, E., & Volpe, G. (2023). *Deep-learning-powered data analysis in plankton ecology*. <http://arxiv.org/abs/2309.08500>
- Borja, A., Berg, T., Gundersen, H., Hagen, A. G., Hancke, K., Korpinen, S., Leal, M. C., Luisetti, T., Menchaca, I., Murray, C., Piet, G., Pitois, S., Rodríguez-Ezpeleta, N., Sample, J. E., Talbot, E., & Uyarra, M. C. (2024). *Innovative and practical tools for monitoring and assessing biodiversity status and impacts of multiple human pressures in marine systems*. 196. <https://doi.org/10.1007/s10661-024-12861-2>
- Chozas, S., Nunes, A., Serrano, H. C., Ascensão, F., Tapia, S., Máguas, C., & Branquinho, C. (2023). Rescuing Botany: using citizen-science and mobile apps in the classroom and beyond. *Npj Biodiversity*, 2(1). <https://doi.org/10.1038/S44185-023-00011-9>
- Ciranni, M., Gjergji, A., Maracani, A., Murino, V., & Pastore, V. P. (2025). *In-domain self-supervised learning for plankton image classification on a budget*.
- Costa-Areglado, F. M. P., Ruiz, G. M., & Brandini, F. P. (2025). Biological invasions via ballast water: evaluating the distribution and gaps in research effort by geography, taxonomic group, and habitat type. In *Frontiers in Marine Science* (Vol. 12). Frontiers Media SA. <https://doi.org/10.3389/fmars.2025.1389559>
- DeepL Translate: The world's most accurate translator*. (n.d.). Retrieved January 5, 2026, from <https://www.deepl.com/en/translator/files>
- Duckworth, B. R. (2025). *Applied Plankton Image Classification for Imaging FlowCytobot Data*.
- Essang, S., Okeke, S., Ante Effiong, J., Francis, R., Fadugba, S. E., Ogbaji Otobi, A., Auta, J. T., Chukwuka, C. F., Ogar-Abang, M. O., & Moses, A. (2025). Adaptive hybrid optimization for backpropagation neural networks in image classification. *Proceedings of the Nigerian Society of Physical Sciences*, 150. <https://doi.org/10.61298/pnspsc.2025.2.150>
- Ganaie, M. A., Hu, M., Malik, A. K., Tanveer, M., & Suganthan, P. N. (2022). *Ensemble deep learning: A review*. <https://doi.org/10.1016/j.engappai.2022.105151>
- Global Fund for Reef Corals (GFCR). (2023). *GFCR FULL PROGRAMME DOCUMENT (Indonesia Coral Reef Rehabilitation)*.

- Horii, T., Ueki, I., Siswanto, E., & Iskandar, I. (2023). Long-term shift and recent early onset of chlorophyll-a bloom and coastal upwelling along the southern coast of Java. *Frontiers in Climate*, 5. <https://doi.org/10.3389/fclim.2023.1050790>
- How to Conduct Qualitative Data Analysis*. (n.d.). Retrieved January 5, 2026, from [https://dovetail.com/research/qualitative-data-analysis/Kyathanahally, S. P., Hardeman, T., Merz, E., Bulas, T., Reyes, M., Isles, P., Pomati, F., & Baity-Jesi, M. \(2021\). Deep Learning Classification of Lake Zooplankton. *Frontiers in Microbiology*, 12. <https://doi.org/10.3389/fmicb.2021.746297>](https://dovetail.com/research/qualitative-data-analysis/Kyathanahally,S.P.,Hardeman,T.,Merz,E.,Bulas,T.,Reyes,M.,Isles,P.,Pomati,F.,&Baity-Jesi,M.(2021).DeepLearningClassificationofLakeZooplankton.FrontiersinMicrobiology,12.https://doi.org/10.3389/fmicb.2021.746297)
- Mandave, D. D., & Patil, V. (2025). Information Dynamics and Applications A Statistically Rigorous Comparison of MobileNetV2 and EfficientNet-B0 for Facial Expression Recognition on the FER2013 Benchmark. *Dyn. Appl*, 4(4), 189–200. <https://doi.org/10.56578/ida040401>
- Maracani, A., Pastore, V. P., Natale, L., Rosasco, L., & Odone, F. (2023). In-domain versus out-of-domain transfer learning in plankton image classification. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-37627-7>
- Nanni, L., Lumini, A., Barcellona, L., & Ghidoni, S. (2025). Convolutional neural networks and vision transformers for Plankton Classification. *Ecological Informatics*, 90. <https://doi.org/10.1016/j.ecoinf.2025.103272>
- Panaïotis, T., Amblard, E., Boniface-Chang, G., Dulac-Arnold, G., Woodward, B., & Irisson, J.-O. (2025). *Benchmark of plankton images classification: emphasizing features extraction over classifier complexity*. <https://doi.org/10.5194/essd-2025-309>
- Pastore, V. P., Zimmerman, T. G., Biswas, S. K., & Bianco, S. (2020). Annotation-free learning of plankton for classification and anomaly detection. *Scientific Reports*, 10(1). <https://doi.org/10.1038/s41598-020-68662-3>
- Pierella Karlusich, J. J., Lombard, F., Irisson, J. O., Bowler, C., & Foster, R. A. (2022). Coupling Imaging and Omics in Plankton Surveys: State-of-the-Art, Challenges, and Future Directions. *Frontiers in Marine Science*, 9. <https://doi.org/10.3389/fmars.2022.878803>
- Pitois, S. G., Blackwell, R. E., Close, H., Eftekhari, N., Giering, S. L. C., Masoudi, M., Payne, E., Ribeiro, J., & Scott, J. (2025). RAPID: real-time automated plankton identification dashboard using Edge AI at sea. *Frontiers in Marine Science*, 11. <https://doi.org/10.3389/fmars.2024.1513463>
- Shang, J., Li, Y., Zhang, W., Ma, X., Yin, H., Niu, L., Wang, L., & Zheng, J. (2024). Supervised machine learning for understanding and predicting the status of bistable eukaryotic plankton community in urbanized rivers. *Water Research*, 266, 122419. <https://doi.org/10.1016/J.WATRES.2024.122419>

- Shim, V. J., Shim, H., & Roh, S. (2015). EfficientNet-B0 outperforms other CNNs in image-based five-class embryo grading: a comparative analysis. *Journal of Animal Reproduction and Biotechnology*, 39(4), 267–277. <https://doi.org/10.12750/jarb.39.4.267>
- Tan, M., & Le, Q. V. (2020). *EfficientNet: Rethinking Model Scaling for Convolutional Neural Networks*.
- Tapia, R., Ho, S. L., Wang, H. Y., Groeneveld, J., & Mohtadi, M. (2022). Contrasting vertical distributions of recent planktic foraminifera off Indonesia during the southeast monsoon: implications for paleoceanographic reconstructions. *Biogeosciences*, 19(13), 3185–3208. <https://doi.org/10.5194/BG-19-3185-2022>
- Taufiqurrahman, E., Wahyudi, A. J., & Masumoto, Y. (2020). The Indonesian throughflow and its impact on biogeochemistry in the Indonesian Seas. *ASEAN Journal on Science and Technology for Development*, 37(1), 29–35. <https://doi.org/10.29037/AJSTD.596>
- Tetteh, S. G. (2024). Empirical Study of Agile Software Development Methodologies: A Comparative Analysis. *Asian Journal of Research in Computer Science*, 17(5), 30–42. <https://doi.org/10.9734/ajrcos/2024/v17i5436>
- Walter, H., Gorzerino, C., Collinet, M., Porcon, B., Martignac, F., & Edeline, E. (2025). *PlanktonFlow: hands-on deep-learning classification of plankton images for biologists*. <https://doi.org/10.1101/2025.09.19.677346>
- World Bank. (2021). *Oceans for Prosperity: Reforms for a Blue Economy in Indonesia*. <https://www.worldbank.org/en/programs/indonesia-sustainable-oceans-program>
- Yue, J., Chen, Z., Long, Y., Cheng, K., Bi, H., & Cheng, X. (2023). Toward efficient deep learning system for in-situ plankton image recognition. *Frontiers in Marine Science*, 10. <https://doi.org/10.3389/fmars.2023.1186343>