

DAFTAR PUSTAKA

- AlexeyAB, 2019, YOLOv4 - Neural Networks for Object Detection (Windows and Linux version of Darknet), Github, <https://github.com/AlexeyAB/darknet> Accessed 20 February 2022.
- Ayoub, N. and Schneider-Kamp, P. (2021) ‘Real-time on-board deep learning fault detection for autonomous UAV inspections’, *Electronics (Switzerland)*, 10(9). doi: 10.3390/electronics10091091.
- Balsys, R., 2019, *YOLOv3 Theory Explained*, Pylelessons, [Online] Available at: <https://pylelessons.com/YOLOv3-introduction/>, Accessed viewed 15 February 2021
- Bochkovskiy, A., Wang, C.-Y., Liao, H.-Y.M., 2020, YOLOv4: Optimal Speed and Accuracy of Object Detection, arXiv:2004.10934 [cs, eess].
- Chamarty, A. (2020) ‘Fine-Tuning of Learning Rate for Improvement of Object Detection Accuracy’, *Proceedings - 2020 IEEE India Council International Subsections Conference, INDISCON 2020*, pp. 135–141. doi: 10.1109/INDISCON50162.2020.00038.
- Chatterjee, A., Rakshit, A., and Singh, N.N. 2013, *Vision Based Autonomous Robot Navigation Algorithms and Implementations*, Springer-Verlag Berlin Heidelberg, New York.
- Chen, J. *et al.* (2021) ‘Navigation path extraction for greenhouse cucumber-picking robots using the prediction-point Hough transform’, *Computers and Electronics in Agriculture*, 180(July 2020). doi: 10.1016/j.compag.2020.105911.
- Dandamudi, A.G.B. *et al.* (2020) ‘CNN based aerial image processing model for women security and smart surveillance’ *Proceedings of the 3rd International Conference on Smart Systems and Inventive Technology, ICSSIT 2020*, 1009– 1017, doi:10.1109/ICSSIT48917.2020.9214143.
- Elgendy, M. 2019a, *Deep Learning for Vision Systems* (MEAP Edition), Manning Publications.
- Gershikov, E. (2017) ‘Efficient horizon line detection using an energy function’, *Proceedings of the 2017 Research in Adaptive and Convergent Systems, RACS 2017*, 2017-January, pp. 110–115. doi: 10.1145/3129676.3129732.
- Guo, J. M. *et al.* (2022) ‘A Light-Weight CNN for Object Detection with Sparse Model and Knowledge Distillation’, *Electronics (Switzerland)*, 11(4). doi: 10.3390/electronics11040575.
- Hidayatullah, P. 2021, *Buku Sakti Deep Learning: Computer Vision Menggunakan YOLO untuk Pemula*, Stunning Vision AI Academy, Bandung.
- Ioffe, S. *et al.* (2015) ‘Batch normalization: Accelerating deep network training by reducing internal covariate shift’, *32nd International Conference on Machine Learning, ICML 2015*, 1, 448–456.
- Jiang, Z. *et al.* (2020). ‘Real-time object detection method based on improved YOLOv4-tiny for embedded devices’. *ArXiv, abs/2011.04244*. pp. 1–11.
- Kathuria, A., 2018, *How to implement a YOLOv3 object detector from scratch in PyTorch: Part 1*, Paperspace Blog [Online] Available at:

<https://blog.paperspace.com/how-to-implement-a-yolo-object-detector-in-pytorch/>, Accessed 15 February 2021

- KKCTBN, 2020, Petunjuk Pelaksanaan Kontes Kapal Cepat Tak Berawak Nasional (KKCTBN) 2020, <https://pusatprestasinasional.kemdikbud.go.id/wp-content/uploads/2020/08/Petunjuk-Pelaksanaan-KKCTBN-2020.pdf>, Accessed 15 February 2021
- Kulshreshtha, M. *et al.* (2021) 'Oatcr: Outdoor autonomous trash-collecting robot design using yolov4-tiny', *Electronics (Switzerland)*, 10(18). doi: 10.3390/electronics10182292.
- Kurniawan, I., 2014, Implementasi Pemrosesan Citra Digital pada Sistem Navigasi Kapal Tanpa Awak, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.
- Le Cun, Y., Bengio, Y. and Hinton, G. (2015) 'Deep learning', *Nature*, 521(7553), pp. 436–444. doi: 10.1038/nature14539.
- Lee, S. J. *et al.* (2018) 'Image-based ship detection and classification for unmanned surface vehicle using real-time object detection neural networks', *Proceedings of the International Offshore and Polar Engineering Conference*, pp. 726–730.
- Li, X. *et al.* (2020) 'A modified YOLOv3 detection method for vision-based water surface garbage capture robot', *International Journal of Advanced Robotic Systems*, 17(3), pp. 1–11. doi: 10.1177/1729881420932715.
- Li, Y. *et al.* (2020) 'A novel target detection method of the unmanned surface vehicle under all-weather conditions with an improved yolov3', *Sensors (Switzerland)*, 20(17), pp. 1–14. doi: 10.3390/s20174885.
- Lin, T.Y. *et al.* (2017) 'Feature pyramid networks for object detection', *Proceedings – 30th IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2017*, pp. 936-944, doi: 10.1109/CVPR.2017.106.
- Oden Technologies, 2022, *Model Training* [Online] Available at: <https://oden.io/glossary/model-training/>, Accessed 21 July 2022
- Padilla, R. *et al.* (2021) 'A comparative analysis of object detection metrics with a companion open-source toolkit', *Electronics (Switzerland)*, 10(3), pp. 1–28. doi: 10.3390/electronics10030279.
- Rácz, A. *et al.* (2021) 'Effect of Dataset Size and Train / Test Split Ratios in', *Effect of Dataset Size and Train/Test Split Ratios in QSAR/QSPR Multiclass Classification*, 26(4)(1111), pp. 1–16. Available at: <https://doi.org/10.3390/molecules26041111>.
- Redmon, J., & Farhadi, A. (2018). YOLOv3: An incremental improvement. *ArXiv:1804.02767v1 [cs.CV]*.
- Sahrul *et al.* (2018) 'Analisis Learning Rate pada Metode Transfer Learning untuk Sistem Pendeteksi Api Sahrul, Sabila Hadinisa, Muhamad Koyimatu, Ade Irawan, Herminarto Nugroho', *Seminar Nasional Microwave*, pp. 8–11.
- Saputra, A. P. (2021) 'Waste Object Detection and Classification using Deep Learning Algorithm: YOLOv4 and YOLOv4-tiny', *Turkish Journal of Computer and Mathematics Education*, 12(14), pp. 1666–1677.
- Satria, F., Zamhariri, Z. and Syaripudin, M. A. (2020) 'Prediksi Ketepatan Waktu Lulus Mahasiswa Menggunakan Algoritma C4.5 Pada Fakultas Dakwah

- Dan Ilmu Komunikasi UIN Raden Intan Lampung’, *Jurnal Ilmiah Matrik*, 22(1), pp. 28–35. doi: 10.33557/jurnalmatrik.v22i1.836.
- Silva, L. A. *et al.* (2020). *An Architectural Multi-Agent System for a Pavement Monitoring System with Pothole Recognition in UAV Images*. *Sensors*, 20(21), 6205–6228. doi:10.3390/s20216205.
- Suzen, A. A., Duman, B. and Sen, B. (2020) ‘Benchmark Analysis of Jetson TX2, Jetson Nano and Raspberry PI using Deep-CNN’, *HORA 2020 - 2nd International Congress on Human-Computer Interaction, Optimization and Robotic Applications, Proceedings*, pp. 3–7. doi: 10.1109/HORA49412.2020.9152915.
- Wang, H. *et al.* (2019) ‘Real-time vehicle detection algorithm based on vision and LiDAR point cloud fusion’, *Journal of Sensors*, 2019. doi: 10.1155/2019/8473980.
- Wang, Z. *et al.* (2020) ‘Object detection algorithm based on improved Yolov3-tiny network in traffic scenes’, *2020 4th CAA International Conference on Vehicular Control and Intelligence, CVCI 2020*, (Cvci), pp. 514–518. doi: 10.1109/CVCI51460.2020.9338478.
- Yao, Z. *et al.* (2021) ‘Real-time method for traffic sign detection and recognition based on YOLOv3-tiny with multiscale feature extraction’, *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, 235(7), pp. 1978–1991. doi: 10.1177/0954407020980559.
- Zhan, W. *et al.* (2019) ‘Autonomous visual perception for unmanned surface vehicle navigation in an unknown environment’, *Sensors (Switzerland)*, 19(10). doi: 10.3390/s19102216.
- Zhang, C. *et al.* (2021) ‘Review on light vision detection of surface obstacles for USV’, *2021 36th Youth Academic Annual Conference of Chinese Association of Automation (YAC)*, pp. 390–395. doi: 10.1109/YAC53711.2021.9486488.
- Zhang, R. *et al.* (2021) ‘Survey on Deep Learning-Based Marine Object Detection’, *Journal of Advanced Transportation*, 2021. doi: 10.1155/2021/5808206.
- Zhiqiang, W. *et al.* (2017) ‘A review of object detection models based on convolutional neural network, Advances in Intelligent Systems and Computing’, doi:10.1007/978-981-15-4288-6_1.
- Zhu, D. *et al.* (2021) ‘Object Detection in Complex Road Scenarios: Improved YOLOv4-Tiny Algorithm’, *2021 2nd Information Communication Technologies Conference, ICTC 2021*, pp. 75–80. doi: 10.1109/ICTC51749.2021.9441643.