

DAFTAR PUSTAKA

- [1] S. Vaddi, C. Kumar, and A. Jannesari, “Efficient object detection model for real-time UAV applications,” *CoRR*, vol. abs/1906.00786, 2019. [Online]. Available: <http://arxiv.org/abs/1906.00786>
- [2] G. Jocher, A. Stoken, A. Chaurasia, J. Borovec, NanoCode012, TaoXie, Y. Kwon, K. Michael, L. Changyu, J. Fang, A. V, Laughing, tkianai, yxNONG, P. Skalski, A. Hogan, J. Nadar, imyhxy, L. Mammana, AlexWang1900, C. Fati, D. Montes, J. Hajek, L. Diaconu, M. T. Minh, Marc, albinxavi, fatih, oleg, and wanghaoyang0106, “ultralytics/YOLOv5: v6.0 - YOLOv5n 'Nano' models, Roboflow integration, TensorFlow export, OpenCV DNN support,” Oct. 2021. [Online]. Available: <https://doi.org/10.5281/zenodo.5563715>
- [3] “*Transfer Learning with Frozen Layers*,” <https://docs.ultralytics.com/tutorials/transfer-learning-froze-layers/>, accessed: 2022-07-06.
- [4] R. Padilla, S. L. Netto, and E. A. B. da Silva, “A survey on performance metrics for object-detection algorithms,” *2020 International Conference on Systems, Signals and Image Processing (IWSSIP)*, pp. 237–242, 2020.
- [5] P. Zhu, L. Wen, D. Du, X. Bian, H. Fan, Q. Hu, and H. Ling, “Detection and tracking meet drones challenge,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, pp. 1–1, 2021.
- [6] C.-J. Yang, T. Chou, F.-A. Chang, C. Ssu-Yuan, and J.-I. Guo, “A smart surveillance system with multiple people detection, tracking, and behavior analysis,” in *2016 International Symposium on VLSI Design, Automation and Test (VLSI-DAT)*, 2016, pp. 1–4.
- [7] J. Choi, D. Chun, H. Kim, and H.-J. Lee, “Gaussian yolov3: An accurate and fast object detector using localization uncertainty for autonomous driving,” in *2019 IEEE/CVF International Conference on Computer Vision (ICCV)*, 2019, pp. 502–511.
- [8] J. Lee, J. Wang, D. Crandall, S. Šabanović, and G. Fox, “Real-time, cloud-based object detection for unmanned aerial vehicles,” in *2017 First IEEE International Conference on Robotic Computing (IRC)*, 2017, pp. 36–43.

- [9] P. Zhang, Y. Zhong, and X. Li, "Slimyolov3: Narrower, faster and better for real-time uav applications," in *2019 IEEE/CVF International Conference on Computer Vision Workshop (ICCVW)*, 2019, pp. 37–45.
- [10] X. Zhu, S. Lyu, X. Wang, and Q. Zhao, "Tph-yolov5: Improved yolov5 based on transformer prediction head for object detection on drone-captured scenarios," *ArXiv*, vol. abs/2108.11539, 2021.
- [11] A. Zhang, Z. C. Lipton, M. Li, and A. J. Smola, "Dive into deep learning," 2021. [Online]. Available: <https://arxiv.org/abs/2106.11342>
- [12] M. Carranza-García, J. Torres-Mateo, P. Lara-Benítez, and J. García-Gutiérrez, "On the performance of one-stage and two-stage object detectors in autonomous vehicles using camera data," *Remote. Sens.*, vol. 13, p. 89, 2021.
- [13] W. Liu, D. Anguelov, D. Erhan, C. Szegedy, S. Reed, C.-Y. Fu, and A. C. Berg, "Ssd: Single shot multibox detector," in *Computer Vision – ECCV 2016*, B. Leibe, J. Matas, N. Sebe, and M. Welling, Eds. Cham: Springer International Publishing, 2016, pp. 21–37.
- [14] R. Yamashita, M. Nishio, R. K. G. Do, and K. Togashi, "Convolutional neural networks: an overview and application in radiology," *Insights into Imaging*, vol. 9, pp. 611 – 629, 2018.
- [15] "Convolutional Neural Network (CNN)," <https://medium.com/@raycad.seedotech/convolutional-neural-network-cnn-8d1908c010ab>, accessed: 2022-07-13.
- [16] J. Redmon, S. K. Divvala, R. B. Girshick, and A. Farhadi, "You only look once: Unified, real-time object detection," *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 779–788, 2016.
- [17] J. Redmon and A. Farhadi, "Yolo9000: Better, faster, stronger," *2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pp. 6517–6525, 2017.
- [18] J. Redmon and A. Farhadi, "Yolov3: An incremental improvement," *ArXiv*, vol. abs/1804.02767, 2018.
- [19] A. Bochkovskiy, C.-Y. Wang, and H.-Y. M. Liao, "Yolov4: Optimal speed and accuracy of object detection," *ArXiv*, vol. abs/2004.10934, 2020.

- [20] D. Thuan, “Evolution of yolo algorithm and yolov5: The state-of-the-art object detection algorithm,” <https://www.theseus.fi/handle/10024/452552>, accessed: 2021-11-12.
- [21] D. Lema, O. Pedrayes, R. Usamentiaga, F. D. Garcia, and A. Alonso, “Cost-performance evaluation of a recognition service of livestock activity using aerial images,” *Remote Sensing*, vol. 13, p. 2318, 06 2021.
- [22] R. Padilla, W. Lobato Passos, T. Dias, S. Netto, and E. da Silva, “A comparative analysis of object detection metrics with a companion open-source toolkit,” *Electronics*, vol. 10, pp. 279–306, 01 2021.
- [23] M. Everingham, L. Van Gool, C. Williams, J. Winn, and A. Zisserman, “The pascal visual object classes (voc) challenge,” *International Journal of Computer Vision*, vol. 88, pp. 303–338, 06 2010.
- [24] “Metrics,” <https://cocodataset.org/#detection-eval>, accessed: 2021-12-08.
- [25] P. F. Zhu, L. Wen, D. Du, X. Bian, H. Ling, Q. Hu, Q. Nie, H. Cheng, C. Liu, X. Liu, W. Ma, H. Wu, L. Wang, A. Schumann, C. Brown, Q. Chen, C. Li, D. Li, E. Michail, F. Zhang, F. Ni, F. Zhu, G. Wang, H. Zhang, H. Deng, H. Liu, H. Wang, H. Qiu, H. Qi, H. Shi, H. Li, H. Xu, H. Lin, Y. Kompatsiaris, J. Cheng, J. Wang, J. Yang, J. Zhou, J. Zhao, K. J. Joseph, K. Duan, K. Suresh, B. Ke, K. Wang, K. Avgerinakis, L. W. Sommer, L. Zhang, L. Yang, L. Cheng, L. Ma, L. Lu, L. Ding, M. Huang, N. K. Vedurupaka, N. Mangain, N. Bansal, O. Acatay, P. Giannakeris, Q. Wang, Q. Zhao, Q. Huang, Q. Liu, Q. Cheng, Q. H. Sun, R. Laganière, S. Jiang, S. Wang, S. Wei, S. Wang, S. Vrochidis, S. Wang, T. Lee, U. Sajid, V. N. Balasubramanian, W. Li, W. Zhang, W. Wu, W. Ma, W. He, W. zhu Yang, X. Chen, X. Sun, X. Luo, X. Lian, X. Li, Y. Kuai, Y. Li, Y. Luo, Y. Zhang, Y. Liu, Y. Li, Y. Wang, Y. Wang, Y. Wu, Y. Fan, Y. Wei, Y. Zhang, Z. Wang, Z. Wang, Z. Xia, Z. Cui, Z. He, Z. Deng, Z. G. Guo, and Z. Song, “Visdrone-det2019: The vision meets drone object detection in image challenge results,” *2019 IEEE/CVF International Conference on Computer Vision Workshop (ICCVW)*, pp. 213–226, 2019.