

DAFTAR PUSTAKA

- [1] Sumampouw and Oksfriani Jufri, *Perubahan iklim dan kesehatan masyarakat*. Deepublish, 2019.
- [2] N. Anggraeni and Bambang Trisakti, “Kajian Dampak Perubahan Iklim Terhadap Kebakaran Hutan Dan Deforestasi Di Provinsi Kalimantan Barat,” *Jurnal Penginderaan Jauh dan Pengolahan Data Citra Digital*, vol. 8, 2011.
- [3] R. D. Kusmanto and Novi Tompunu, “Pengolahan Citra Digital Untuk Mendeteksi Obyek Menggunakan Pengolahan Warna Model Normalisasi RGB,” *Semantik*, 2011.
- [4] Badan Nasional Penanggulangan Bencana, “Kebakaran Hutan dan Lahan Agustus 2023,” <https://data.bnpb.go.id/pages/karhutla-082023>.
- [5] A. Haryono, S. Bismantoko, G. M. Putra, and T. Widodo, “Accuracy in Object Detection based on Image Processing at the Implementation of Motorbike Parking on The Street,” in *2019 2nd International Conference on Applied Engineering (ICAE)*, 2019, pp. 1–5. doi: 10.1109/ICAE47758.2019.9221817.
- [6] H. Lin, J. D. Deng, D. Albers, and F. W. Siebert, “Helmet Use Detection of Tracked Motorcycles Using CNN-Based Multi-Task Learning,” *IEEE Access*, vol. 8, pp. 162073–162084, 2020, doi: 10.1109/ACCESS.2020.3021357.
- [7] Y. Amit, P. Felzenszwalb, and R. Girshick, “Object Detection,” in *Computer Vision*, Cham: Springer International Publishing, 2021, pp. 875–883. doi: 10.1007/978-3-030-63416-2_660.
- [8] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, “You only look once: Unified, real-time object detection,” in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2016, pp. 779–788.
- [9] M. Dasgupta, O. Bandyopadhyay, and S. Chatterji, “Automated Helmet Detection for Multiple Motorcycle Riders using CNN,” in *2019 IEEE*

- Conference on Information and Communication Technology*, 2019, pp. 1–4.
doi: 10.1109/CICT48419.2019.9066191.
- [10] Y. Pu *et al.*, “Rank-DETR for High Quality Object Detection,” in *Advances in Neural Information Processing Systems*, A. Oh, T. Neumann, A. Globerson, K. Saenko, M. Hardt, and S. Levine, Eds., Curran Associates, Inc., 2023, pp. 16100–16113. [Online]. Available: https://proceedings.neurips.cc/paper_files/paper/2023/file/34074479ee2186a9f236b8fd03635372-Paper-Conference.pdf
 - [11] S. Butte, A. Vakanski, K. Duellman, H. Wang, and A. Mirkouei, “Potato crop stress identification in aerial images using deep learning-based object detection,” *Agron J*, vol. 113, no. 5, pp. 3991–4002, 2021.
 - [12] K. C. Meda, S. S. Milla, and B. S. Rostad, “Artificial intelligence research within reach: an object detection model to identify rickets on pediatric wrist radiographs,” *Pediatr Radiol*, vol. 51, pp. 782–791, 2021.
 - [13] J. Zhao, C. Li, Z. Xu, L. Jiao, Z. Zhao, and Z. Wang, “Detection of passenger flow on and off buses based on video images and YOLO algorithm,” *Multimed Tools Appl*, pp. 1–24, 2022.
 - [14] P. Tang, Y. Guo, H. Li, Z. Wei, G. Zheng, and J. Pu, “Image dataset creation and networks improvement method based on CAD model and edge operator for object detection in the manufacturing industry,” *Mach Vis Appl*, vol. 32, no. 5, p. 111, 2021.
 - [15] M. Haris and A. Glowacz, “Road object detection: A comparative study of deep learning-based algorithms,” *Electronics (Basel)*, vol. 10, no. 16, p. 1932, 2021.
 - [16] X. Zhu, W. Su, L. Lu, B. Li, X. Wang, and J. Dai, “Deformable DETR: Deformable transformers for end-to-end object detection,” *arXiv preprint arXiv:2010.04159*, 2020.
 - [17] M. Lin *et al.*, “DETR for crowd pedestrian detection,” *arXiv preprint arXiv:2012.06785*, 2020.

- [18] H. Ouyang, “Deyo: *DETR* with yolo for step-by-step object detection,” *arXiv preprint arXiv:2211.06588*, 2022.
- [19] W. Liu, H. Lu, Y. Liu, and Z. Cao, “Box-*DETR*: Understanding and Boxing Conditional Spatial Queries,” *arXiv preprint arXiv:2307.08353*, 2023.
- [20] J. Huang and H. Wang, “Small Object Detection by *DETR* via Information Augmentation and Adaptive Feature Fusion,” *arXiv preprint arXiv:2401.08017*, 2024.
- [21] Y.-X. Huang, H.-I. Liu, H.-H. Shuai, and W.-H. Cheng, “Dq-*DETR*: *DETR* with dynamic query for tiny object detection,” *arXiv preprint arXiv:2404.03507*, 2024.
- [22] C. Feng, C. Wang, Q. Fu, and R. Kou, “D2ETR: A Decoupled *DETR* for Efficient Detection in Aerial Images,” in *Proceedings of the 2024 7th International Conference on Image and Graphics Processing*, 2024, pp. 369–376.
- [23] A. Gupta, S. Narayan, K. J. Joseph, S. Khan, F. S. Khan, and M. Shah, “Ow-*DETR*: Open-world detection transformer,” in *Proceedings of the IEEE/CVF conference on computer vision and pattern recognition*, 2022, pp. 9235–9244.
- [24] S. Wang *et al.*, “Forest fire detection based on lightweight Yolo,” in *2021 33rd Chinese Control and Decision Conference (CCDC)*, IEEE, 2021, pp. 1560–1565.
- [25] S. A. Cahyono, S. P. Warsito, W. Andayani, and D. H. Darwanto, “Faktor-faktor yang mempengaruhi kebakaran hutan di Indonesia dan implikasi kebijakannya,” *Jurnal Sylva Lestari*, vol. 3, no. 1, pp. 103–112, 2015.
- [26] S. D. Nasution, F. Rianawati, and S. Susilawati, “Faktor Penyebab Kebakaran Hutan Di Tahura Sultan Adam Kalimantan Selatan,” *Jurnal Sylva Scientiae*, 2020, [Online]. Available: <http://ppjp.ulm.ac.id/journals/index.php/jss/article/view/1822>

- [27] Y. LeCun, Y. Bengio, and G. Hinton, "Deep learning," *Nature*, vol. 521, no. 7553, pp. 436–444, 2015, doi: 10.1038/nature14539.
- [28] I. Goodfellow, Y. Bengio, and A. Courville, *Deep learning*. books.google.com, 2016. [Online]. Available: <https://books.google.com/books?hl=en&lr=&id=omivDQAAQBAJ&oi=fnd&pg=PR5&dq=goodfellow+i+bengio+y+courville+a+2016++deep+learning+mit+press&ots=MOM4avoITZ&sig=ZrnKHTmJBhGrY6MRrUZBaXJaZyQ>
- [29] T. Jo, "Machine learning foundations," *Supervised, Unsupervised, and Advanced Learning ...*, 2021, doi: 10.1007/978-3-030-65900-4.
- [30] S. Haykin, *Neural Networks and Learning Machines*. ... Neural Network Training and ..., 2009.
- [31] Z. Shao and J. Cai, "Remote sensing image fusion with deep convolutional neural network," *IEEE journal of selected topics in applied earth ...*, 2018, [Online]. Available: <https://ieeexplore.ieee.org/abstract/document/8314460/>
- [32] Nafiz Shahriar, "What is Convolutional Neural Network — CNN (Deep Learning)," <https://nafizshahriar.medium.com/what-is-convolutional-neural-network-CNN-deep-learning-b3921bdd82d5>.
- [33] L. Chen, S. Li, Q. Bai, J. Yang, S. Jiang, and Y. Miao, "Review of Image Classification Algorithms Based on Convolutional Neural Networks," *Remote Sens (Basel)*, vol. 13, no. 22, p. 4712, Nov. 2021, doi: 10.3390/rs13224712.
- [34] S. Sakib, N. Ahmed, A. J. Kabir, and H. Ahmed, *An overview of convolutional neural network: Its architecture and applications*. preprints.org, 2019. [Online]. Available: <https://www.preprints.org/manuscript/201811.0546>
- [35] P. R. Aningtiyas, A. Sumin, and S. Wiraman, "Pembuatan Aplikasi Deteksi Objek Menggunakan Memanfaatkan SSD MobileNet V2 Sebagai Model

- TensorFlow Object Detection API dengan Pra ...,” *Jurnal Ilmiah KOMPUTASI*, 2020.
- [36] N. Z. Munantri, H. Sofyan, and ..., “Aplikasi Pengolahan Citra Digital Untuk Identifikasi Umur Pohon,” ... : *Jurnal Informatika dan ...*, 2020, [Online]. Available:
<http://www.jurnal.upnyk.ac.id/index.php/telematika/article/view/3183>
- [37] F. and S. G. and U. N. and K. A. and Z. S. Carion Nicolas and Massa, “End-to-End Object Detection with Transformers,” in *Computer Vision – ECCV 2020*, H. and B. T. and F. J.-M. Vedaldi Andrea and Bischof, Ed., Cham: Springer International Publishing, 2020, pp. 213–229.
- [38] A. Vaswani *et al.*, “Attention is All you Need,” in *Advances in Neural Information Processing Systems*, I. Guyon, U. Von Luxburg, S. Bengio, H. Wallach, R. Fergus, S. Vishwanathan, and R. Garnett, Eds., Curran Associates, Inc., 2017. [Online]. Available:
https://proceedings.neurips.cc/paper_files/paper/2017/file/3f5ee243547dee91fbd053c1c4a845aa-Paper.pdf
- [39] R. Artikel *et al.*, “Dilated-Convolutional Recurrent Neural Network untuk Klasifikasi Genre Musik Creative Commons License 4.0 (CC BY-NC),” vol. 10, 2024, doi: 10.28932/jutisi.v10i3.9347.
- [40] @btn_gn_merbabu, “Balai Taman Nasional Gunung Merbabu,” 2023. [Online]. Available: https://www.instagram.com/btn_gn_merbabu/