

## DAFTAR PUSTAKA

- Adi Pamungkas. (2017). *Pemrograman Matlab*.  
<https://pemrogramanmatlab.com/2017/07/26/pengolahan-citra-digital/>
- Alif, M. A. R. (2024). *YOLOv11 for Vehicle Detection: Advancements, Performance, and Applications in Intelligent Transportation Systems*. <http://arxiv.org/abs/2410.22898>
- Aritenang, A. F. (2024). *The crucial role of motorcycle-based ride-hailing among commuters: The case of Jakarta and Bandung in metropolitan areas*. *Journal of Public Transportation*, 26.  
<https://doi.org/10.1016/j.jpubtr.2024.100082>
- Badan Pusat Statistik. (2025). *Number of Registered Motor Vehicles by Province and Type of Motor Vehicles (units), 2025*. <https://www.bps.go.id/assets/statistics-table/3/VjJ3NGRGa3dkRk5MTIU1bVNFOTVVbmQyVURSTVFUMDkjMw%3D%3D/jumlah-kendaraan-bermotor-menurut-provinsi-dan-jenis-kendaraan--unit---2023.html>
- Brownlee, J. (2019). *Deep Learning for Computer Vision Image Classification, Object Detection and Face Recognition in Python*.
- Cadavid, L., & Salazar-Serna, K. (2021). *Mapping the research landscape for the motorcycle market policies: Sustainability as a trend—a systematic literature review*. *Dalam Sustainability (Switzerland)* (Vol. 13, Nomor 19). MDPI.  
<https://doi.org/10.3390/su131910813>
- Chaman, M., Maliki, A. El, Jariri, N., Dahou, H., Laamari, H., Hadjoudja, A., & Mrabet, A. El. (2025). *A Real-Time Vehicle Detection System for ADAS in Autonomous Vehicles Using YOLOv11 Deep Neural Network on Embedded Edge Platforms*. *Engineering, Technology and Applied Science Research*, 15(5), 28077–28082. <https://doi.org/10.48084/etasr.12138>
- Chiu, B. yu, & Guerra, E. (2023). *What predicts motorcycle ownership, mode choice, and use for utilitarian travel? A literature review*. *Transport Reviews*, 43(6), 1165–1189.  
<https://doi.org/10.1080/01441647.2023.2205177>
- Cimadevilla Gonzalez, C. (2025). *Lightweight AI for Assistive Navigation: Optimizing Object Detection Models for Smartphones*.
- Dequito, C. J. M., Dichaves, I. J. L., Juan, R. J. G., Minaga, M. Y. K. T., Ilao, J. P., M O Cordel, I. I., & Del Gallego, N. P. A. (2021). *Vision-based bicycle and motorcycle detection using a YOLO-based Network*. *Journal of Physics: Conference Series*, 1922(1).  
<https://doi.org/10.1088/1742-6596/1922/1/012003>
- Dr. Arnita, S. S., & M.Si, F. M. (2022). *Computer Vision dan Pengolahan Citra Digital*.  
[www.pustakaaksara.co.id](http://www.pustakaaksara.co.id)

- Ekandana, M. R., & Kurniawan, B. (2022). *Implementasi Program Electronic Traffic Law Enforcement (E-TLE) Sebagai Upaya Meningkatkan Ketertiban Lalu Lintas Di Kota Surabaya*. *Publika*, 1605–1616. <https://doi.org/10.26740/publika.v11n1.p1605-1616>
- Endina Putri Purwandari, S. T., M. Kom. (2018). *Konsep dan Teori Pengolahan Citra Digital*.
- Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep Learning*.
- Hidayatullah, Syakrani, N., Sholahuddin, M. R., Gelar, T., & Tubagus, R. (2025). *YOLOv8 to YOLO11: A Comprehensive Architecture In-depth Comparative Review A PREPRINT*.
- Hodson, T. O. (2022). *Root-mean-square error (RMSE) or mean absolute error (MAE): when to use them or not*. Dalam *Geoscientific Model Development* (Vol. 15, Nomor 14, hlm. 5481–5487). Copernicus GmbH. <https://doi.org/10.5194/gmd-15-5481-2022>
- Ioffe, S., & Szegedy, C. (2015). *Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift*. <http://arxiv.org/abs/1502.03167>
- Khanam, R., & Hussain, M. (2024). *YOLOv11: An Overview of the Key Architectural Enhancements*. <http://arxiv.org/abs/2410.17725>
- Kresnanto, N. C., Putri, W. H., & Raharti, R. (2025). *Modeling motorcycles dependency for commuting among low-income communities in Yogyakarta, Indonesia: The perspective of the theory of planned behavior*. *Case Studies on Transport Policy*, 20. <https://doi.org/10.1016/j.cstp.2025.101404>
- Li, W., Huang, L., & Lai, X. (2025). *A Deep Learning Framework for Traffic Accident Detection Based on Improved YOLO11*. *Vehicles*, 7(3). <https://doi.org/10.3390/vehicles7030081>
- Majumder, M., & Wilmot, C. (2023). *Automated Vehicle Counting from Pre-Recorded Video Using You Only Look Once (YOLO) Object Detection Model*. *Journal of Imaging*, 9(7). <https://doi.org/10.3390/jimaging9070131>
- Moolayil, J. (2018). *Learn Keras for Deep Neural Networks: A Fast-Track Approach to Modern Deep Learning with Python*. Dalam *Learn Keras for Deep Neural Networks: A Fast-Track Approach to Modern Deep Learning with Python*. Apress Media LLC. <https://doi.org/10.1007/978-1-4842-4240-7>
- Ngurah, G., Jaya, P., & Mansyur, U. (2024). *Analysis of Junction Congestion and ITS Handling Efforts on Urban Roads*. *Jurnal Indonesia Sosial Teknologi*, 5(8), 3832. <http://jlist.publikasiindonesia.id/>
- O'Shea, K., & Nash, R. (2015). *An Introduction to Convolutional Neural Networks*. <http://arxiv.org/abs/1511.08458>
- Padilla, R., Netto, S. L., & Da Silva, E. A. B. (2020). *A Survey on Performance Metrics for Object-Detection Algorithms*.

- Ramachandran, P., Zoph, B., & Le, Q. V. (2017). *Swish: A Self-Gated Activation Function*. <http://arxiv.org/abs/1710.05941>
- Redmon, J., Divvala, S., Girshick, R., & Farhadi, A. (2016). *You Only Look Once: Unified, Real-Time Object Detection*. <http://pjreddie.com/yolo/>
- Redmon, J., & Farhadi, A. (2018). *YOLOv3: An Incremental Improvement*. <http://arxiv.org/abs/1804.02767>
- Rezatofighi, H., Tsoi, N., Gwak, J., Sadeghian, A., Reid, I., & Savarese, S. (2019). *Generalized Intersection over Union: A Metric and A Loss for Bounding Box Regression*. <http://arxiv.org/abs/1902.09630>
- Sapkota, R., Meng, Z., Churuvija, M., Du, X., Ma, Z., & Karkee, M. (2026). *Comprehensive Performance Evaluation of YOLOv12, YOLO11, YOLOv10, YOLOv9 and YOLOv8 on Detecting and Counting Fruitlet in Complex Orchard Environments*. *Agriculture Communications*, 100125. <https://doi.org/10.1016/j.agrcom.2026.100125>
- Sherifi, S., Halili, F., & Kasa-Halili, M. (2025). *Intelligent Traffic Monitoring with YOLOv11: A Case Study in Real-Time Vehicle Detection*.
- Szeliski, R. (2010). *Computer Vision: Algorithms and Applications*. <http://szeliski.org/Book/>.
- Ultralytics. (2023). *YOLOv8*. <https://docs.ultralytics.com/models/yolov8#overview>
- Ultralytics. (2024). *YOLO11*. <https://docs.ultralytics.com/models/yolo11#overview>
- Wang, A., Chen, H., Liu, L., Chen, K., Lin, Z., Han, J., & Ding, G. (2024). *YOLOv10: Real-Time End-to-End Object Detection*. <http://arxiv.org/abs/2405.14458>
- Wang, C.-Y., Yeh, I.-H., & Liao, H.-Y. M. (2024). *YOLOv9: Learning What You Want to Learn Using Programmable Gradient Information*. <http://arxiv.org/abs/2402.13616>
- Wei, M., & Zhan, W. (2024). *YOLO\_MRC: A fast and lightweight model for real-time detection and individual counting of Tephritidae pests*. *Ecological Informatics*, 79. <https://doi.org/10.1016/j.ecoinf.2023.102445>
- Xie, M., Yang, X., Li, B., & Fan, Y. (2024). *A YOLO-Based Method for Head Detection in Complex Scenes*. *Sensors*, 24(22). <https://doi.org/10.3390/s24227367>
- Yaseen, M. (2024). *What is YOLOv8: An In-Depth Exploration of the Internal Features of the Next-Generation Object Detector*. <http://arxiv.org/abs/2408.15857>
- Zhang, X. (2025). *A lightweight model FDM-YOLO for small target improvement based on YOLOv8*. <https://doi.org/https://doi.org/10.48550/arXiv.2503.04452>
- Zhang, Y., Sun, P., Jiang, Y., Yu, D., Weng, F., Yuan, Z., Luo, P., Liu, W., & Wang, X. (2022). *ByteTrack: Multi-Object Tracking by Associating Every Detection Box*. <http://arxiv.org/abs/2110.06864>

Zhao, Y., & Chen, G. (2025). *LPAE-YOLOv8: lightweight aerial small object detection via LSE-Head and adaptive attention*. *Scientific Reports*, 15(1). <https://doi.org/10.1038/s41598-025-28741-9>

Zhou, Y., & Zhao, B. (2025). *You Only Look Once 11 (YOLO11) optimization for lightweight and accurate plant detection in uncrewed aerial vehicle imagery*. *PeerJ Computer Science*, 11. <https://doi.org/10.7717/peerj-cs.3322>