

## DAFTAR PUSTAKA

- [1] A. P. Pasaribu, "FAKTOR PENYEBAB TERJADINYA KLAIM YANG MEMPENGARUHI KINERJA WAKTU PROYEK KONSTRUKSI JALAN TOL DI JABODETABEK," 2009.
- [2] E. Hutapea, "7 Penyebab Tol Jakarta-Cikampek Sering Macet," Kompas.com, 31 May 2018. [Online]. Available: <https://properti.kompas.com/read/2018/05/31/182048321/7-penyebab-tol-jakarta-cikampek-sering-macet>. [Accessed May 2022].
- [3] P. D. Wahyuni and M. Bernik, "Analisis Sistem Antrian dalam Penggunaan E-Toll untuk Menentukan Jumlah Gardu Optimal pada Gerbang Tol," *Jurnal Manajemen & Kewirausahaan*, vol. 8, pp. 143-150, 2020.
- [4] K. Adyani, "Tilang Elektronik: Mekanisme, Cara Cek, dan Biaya Denda Lengkap," Qoala, 18 December 2021. [Online]. Available: <https://www.qoala.app/id/blog/gaya-hidup/otomotif/panduan-tentang-tilang-elektronik-terlengkap/>. [Accessed June 2022].
- [5] M. I. Bustomi, "400 Pelanggar Kena Tilang Elektronik Per Hari, Terbanyak Terobos Lampu Merah dan Marka Stop Line," Kompas.com, 1 April 2021. [Online]. Available: <https://megapolitan.kompas.com/read/2021/04/01/13062001/400-pelanggar-kena-tilang-elektronik-per-hari-terbanyak-terobos-lampu>. [Accessed June 2022].
- [6] B. P. S. D. Jakarta, "Volume Kendaraan Lewat Jalan Tol Menurut Gerbang Transaksi dan Golongan Tarif Kendaraan 2019-2020," BPS, 2020. [Online]. Available: <https://jakarta.bps.go.id/indicator/17/299/1/volume-kendaraan-lewat-jalan-tol-menurut-gerbang-transaksi-dan-golongan-tarif-kendaraan.html>. [Accessed June 2022].
- [7] D. H. MSi, "Monitoring Jalan Tol," Koran Jakarta, 20 July 2017. [Online]. [Accessed May 2022].
- [8] K. Manasa and V. Madhurima, "Electronic Toll Collection System Based On Computer Vision," *International Journal of Advanced Engineering Research and Science (IJAERS)*, no. 4, 2017.
- [9] M. A. Suryatali and M. V. B. Dharmadhikari, "Computer Vision Based Vehicle Detection for Toll Collection System Using Embedded Linux," *International Conference On Circuit, Power, and Computing Technologies (ICCPCT)*, no. 15, 2015.

- [10] R. Rahman, Z. B. Azad and M. B. Hasan, "Densely-Populated Traffic Detection Using YOLOv5 and Non-Maximum Suppression Ensembling" 2021.
- [11] I. R. Khan, S. T. A. Ali, A. Siddiq, M. M. Khan, M. U. Ilyas, S. Alshomrani and S. Rahardja, "Automatic License Plate Recognition in Real-World Traffic Videos Captured in Unconstrained Environment by a Mobile Camera," 2022.
- [12] O. Cosido, A. Iglesias, A. Galvez, R. Catuogno, M. Campi, L. Teran and E. Sainz, "Hybridization of Convergent Photogrammetry, Computer Vision, and Artificial Intelligence for Digital Documentation of Cultural Heritage-A Case Study: The Magdalena Palace," *International Conference on Cyberworlds*, 2014.
- [13] F. Zhao, X. Xie and M. Roach, "Computer Vision Tehcniques for the Transcatheter Intervention," *IEEE Journal of Translational Engineering in Health and Medicine*, no. 3, 2015.
- [14] Z.-Q. Zhao, P. Zheng, S.-t. Xu and X. Wu, "Object Detection with Deep Learning: A Review," 2019.
- [15] "Object Detection Guide," Fritz AI, 2021. [Online]. Available: <https://www.fritz.ai/object-detection/>. [Accessed June 2022].
- [16] N. Sahu and M. Sonkusare, "A Study on Optical Character Recognition Techniques," 2017.
- [17] "How optical character recognition works," 8 April 2018. [Online]. Available: <https://www.konicaminolta.com.au/news-insight/blog/how-optical-character-recognition-works>. [Accessed June 2022].
- [18] A. Garg, "Use Yolo v5 Object Detection Algorithm for Custom Object Detection," Analytics Vidhya, 14 December 2021. [Online]. Available: <https://www.analyticsvidhya.com/blog/2021/12/how-to-use-yolo-v5-object-detection-algorithm-for-custom-object-detection-an-example-use-case/>. [Accessed June 2022].
- [19] P. Dwivedi, "YOLOv5 compared to Faster RCNN," Towards Data Science, 30 June 2020. [Online]. Available: <https://towardsdatascience.com/yolov5-compared-to-faster-rcnn-who-wins-a771cd6c9fb4>. [Accessed June 2022].
- [20] "What Is Python Used For? A Beginner's Guide," Coursera, 5 May 2022. [Online]. Available: <https://www.coursera.org/articles/what-is-python-used-for-a-beginners-guide-to-using-python>. [Accessed June 2022].

- [21] "Introduction to Python," W3School, [Online]. Available: [https://www.w3schools.com/python/python\\_intro.asp](https://www.w3schools.com/python/python_intro.asp). [Accessed June 2022].
- [22] Parwata, "On Board Unit (OBU) Bayar Tol tanpa Harus Berhenti, Cukup Turunkan Kecepatan Hingga 5 Km/Jam," GridOto, 31 October 2017. [Online]. Available: <https://otomotifnet.gridoto.com/read/231148837/on-board-unit-obu-bayar-tol-tanpa-harus-berhenti-cukup-turunkan-kecepatan-hingga-5-kmjam>. [Accessed May 2022].
- [23] I. I. Praditya, "Ini Alasan Pengguna Tol Tak Mau Gunakan On Board Unit," Liputan6, 21 March 2017. [Online]. Available: <https://www.liputan6.com/bisnis/read/2893630/ini-alasan-pengguna-tol-tak-mau-gunakan-on-board-unit>. [Accessed May 2022].

The logo for Universitas Multimedia Nusantara (UMMN) features the letters 'UMMN' in a large, bold, light blue font. The letters are stylized with rounded edges and a slight shadow effect.

U N I V E R S I T A S  
M U L T I M E D I A  
N U S A N T A R A