

DAFTAR PUSTAKA

- [1] S. Hidayat, S. Sakaria, and B. Kristanto, “Aplikasi Berbasis Crowdsourcing Guna Mengetahui Kondisi Jalan Di Kota Malang,” *J-INTECH*, p., 2021, doi: 10.32664/j-intech.v9i01.591.
- [2] A. K. Jabakumar, “Edge-Enabled Smart Traffic Management System: An IoT Implementation for Urban Mobility,” *Research Journal of Computer Systems and Engineering*, vol. 4, no. 2, pp. 160–173, Dec. 2023, doi: 10.52710/rjcese.85.
- [3] M. K. Moatlhodi, H. Matsila, and B. Monchusi, “Smart Traffic Control Using Computational Algorithms and IoT,” *2025 33rd Southern African Universities Power Engineering Conference (SAUPEC)*, pp. 1–6, 2025, doi: 10.1109/saupec65723.2025.10944467.
- [4] Y. Chen, M. Gao, W. Xiang, and J. Mo, “Short-Term Traffic Speed Prediction Based on AGC-LSTM with Multi-Source Data Integration,” *Int. J. Intell. Transp. Syst. Res.*, vol. 22, pp. 774–784, 2024, doi: 10.1007/s13177-024-00431-2.
- [5] L. Huang, J. Qin, and T. Wu, “Multisource Data Fusion With Graph Convolutional Neural Networks for Node-Level Traffic Flow Prediction,” *J. Adv. Transp.*, vol. 2024, no. 1, 2024, doi: 10.1155/atr/7109780.
- [6] J. Fu, A. Huang, J. Pan, X. Mo, B. Chen, and D. Liao, “Multi-source Information Data Fusion Method between Heterogeneous Platforms,” *2024 International Conference on Power, Electrical Engineering, Electronics and Control (PEEEEC)*, pp. 382–388, 2024, doi: 10.1109/peeec63877.2024.00076.
- [7] J. Qiu and Y. Zhao, “Traffic Prediction with Data Fusion and Machine Learning,” *Analytics*, vol. 4, no. 2, p. 12, Apr. 2025, doi: 10.3390/analytics4020012.
- [8] S. Biswas, S. Acharjee, A. Ali, and S. S. Chaudhari, “YOLOv8 based Traffic Signal Detection in Indian Road,” in *2023 7th International Conference on Electronics, Materials Engineering and Nano-Technology, IEMENTech 2023*, Institute of Electrical and Electronics Engineers Inc., 2023. doi: 10.1109/IEMENTech60402.2023.10423520.
- [9] M. Bakirci, “Real-Time Vehicle Detection Using YOLOv8-Nano for Intelligent Transportation Systems,” *Traitement du Signal*, vol. 41, no. 04, pp. 1727–1740, Aug. 2024, doi: 10.18280/ts.410407.
- [10] J. Lu and J. Yang, “Object detection in urban traffic scenarios based on improved YOLOv8 model,” in *Third International Symposium on Computer Applications and Information Systems (ISCAIS 2024)*, 2024, pp. 403–409.
- [11] S. Shevtekar and S. Kulkarni, “Traffic-sign Recognition and Detection using Yolo-v8,” *International Journal of Research Publication and Reviews (IJRPR)*, May 2024, doi: 10.13140/RG.2.2.19007.11683.

- [12] B. Khalili and A. W. Smyth, "SOD-YOLOv8 -- Enhancing YOLOv8 for Small Object Detection in Traffic Scenes," Aug. 2024, [Online]. Available: <http://arxiv.org/abs/2408.04786>
- [13] B. Parihar and P. Chimmwal, "Traffic Flow Prediction using LSTM Networks: A Deep Learning Approach for Real-Time Traffic Forecasting," 2022. [Online]. Available: <http://www.ijritcc.org>
- [14] V. N. Katambire, R. Musabe, A. Uwitonze, and D. Mukanyiligira, "Forecasting the Traffic Flow by Using ARIMA and LSTM Models: Case of Muhima Junction," *Forecasting*, vol. 5, no. 4, pp. 616–628, Dec. 2023, doi: 10.3390/forecast5040034.
- [15] R. Liu and S. Y. Shin, "A Review of Traffic Flow Prediction Methods in Intelligent Transportation System Construction," Apr. 01, 2025, *Multidisciplinary Digital Publishing Institute (MDPI)*. doi: 10.3390/app15073866.
- [16] M. E. M. Ali, A. Durdu, S. A. Celtek, and A. Yilmaz, "An Adaptive Method for Traffic Signal Control Based on Fuzzy Logic With Webster and Modified Webster Formula Using SUMO Traffic Simulator," *IEEE Access*, vol. 9, pp. 102985–102997, 2021, doi: 10.1109/access.2021.3094270.
- [17] T. İnağ and M. Arıkan, "A Fuzzy Based Intelligent Traffic Light Control (ITLC) Method: An Implementation in Ankara City," *Bitlis Eren Üniversitesi Fen Bilimleri Dergisi*, p., 2024, doi: 10.17798/bitlisfen.1388486.
- [18] G. A. De Souza, "APPLICATION OF FUZZY LOGIC IN DECISION-MAKING SYSTEMS FOR URBAN TRAFFIC MANAGEMENT," *International Seven Journal of Multidisciplinary*, p., 2023, doi: 10.56238/isevmjv2n1-017.
- [19] I. Tunc and M. Soylemez, "Fuzzy logic and deep Q learning based control for traffic lights," *Alexandria Engineering Journal*, p., 2023, doi: 10.1016/j.aej.2022.12.028.
- [20] E. Al-Kharabsheh, "Reinforcement Learning in Urban Network Traffic-signal Control," *Jordan Journal of Civil Engineering*, vol. 17, no. 4, pp. 709–722, 2023, doi: 10.14525/JJCE.v17i4.12.
- [21] X. Zhang, "Artificial Intelligence in Intelligent Traffic Signal Control," 2025, doi: 10.54254/2755-2721/118/2025.20846.
- [22] M. Song, H. Zlajpah, and C. Whitfield, "Real-Time IoT Data Synchronization and Processing in Hybrid Edge-Cloud Architectures," Mar. 2025. [Online]. Available: <https://www.researchgate.net/publication/390175250>
- [23] V. D. Shepelev, A. I. Glushkov, and O. Fadina, "Improvement of traffic flow management at intersections using cluster analysis and fuzzy logic," *FME Transactions*, p., 2025, doi: 10.5937/fme2503499s.

- [24] T. Sun, Wanjing, B. Sun, and L. Wang, “A Decomposition and Attention Fusion Approach for Traffic Flow Forecasting Using Multimodal Deep Learning,” *CICTP 2021*, p., 2021, doi: 10.1061/9780784483565.022.
- [25] H. Huang, B. Wang, J. Xiao, and T. Zhu, “Improved small-object detection using YOLOv8: A comparative study,” *Applied and Computational Engineering*, vol. 41, no. 1, pp. 80–88, Feb. 2024, doi: 10.54254/2755-2721/41/20230714.
- [26] S. Nazarinezhad and E. Farahani, “Performance Evaluation of the YOLOv8 Model in Traffic Sign Detection for Intelligent Transportation Systems,” *Urban Development Policy Making*, p., 2025, doi: 10.22034/judpm.2025.514770.1029.
- [27] N. A. K. Zghair, R. A. Atta, H. M. Hasan, A. S. Zamil, and S. B. Attallah, “Implement Intelligent YOLOv8 for Car Crowd Detection and Counting in the Roads,” *Journal of Intelligent Systems and Internet of Things*, vol. 16, no. 1, pp. 132–141, 2025, doi: 10.54216/JISIoT.160111.
- [28] H. F. Al-Selwi, A. B. A. Aziz, F. S. Abas, N. A. A. Hamzah, and A. Bin Mahmud, “The impact of weather data on traffic flow prediction models,” *IAES International Journal of Artificial Intelligence*, vol. 11, no. 4, pp. 1223–1231, Dec. 2022, doi: 10.11591/ijai.v11.i4.pp1223-1231.
- [29] S. Akbar, J. Raya Karanglo, A. Soetedjo, I. Komang Somawirata, I. kngsomawirata, and lectureritnacidSyukri Akbar, “Real-Time Vehicle Queue Length Prediction Using YOLOv11 and Machine-Learning Techniques Original Scientific Paper,” 2026.
- [30] M. Q. Kheder and A. A. Mohammed, “Real-time traffic monitoring system using IoT-aided robotics and deep learning techniques,” *Kuwait Journal of Science*, vol. 51, no. 1, Jan. 2024, doi: 10.1016/j.kjs.2023.10.017.
- [31] Z. Zhang, S. Zhang, L. Mo, M. Guo, F. Liu, and X. Qi, “Traffic Volume Estimate Based on Low Penetration Connected Vehicle Data at Signalized Intersections: A Bayesian Deduction Approach,” *IEEE Transactions on Intelligent Transportation Systems*, vol. 23, no. 8, pp. 10596–10609, Aug. 2022, doi: 10.1109/TITS.2021.3094933.
- [32] T. Fred and V. Mark, “AI-Powered Adaptive Traffic Light Control Systems for Congestion Reduction,” 2025. [Online]. Available: <https://www.researchgate.net/publication/390233439>