

## DAFTAR PUSTAKA

- [1] D. W. Wibowo, M. A. Muslim, and M. Sarosa, "Counting of the number and type of vehicles using the Fuzzy C-means method and canny edge detection segmentation," *J. Electr. Electron. Commun. Control. Informatics, Syst.*, vol. 7, no. 2, pp. 103–110, 2013.
- [2] D. Fenomena, D. Herumurti, and J. L. Buliali, "Deteksi Kendaraan Pada Citra Udara Beresolusi Sangat Tinggi di Area Perkotaan dengan Menggunakan Metode Ekstraksi Oriented FAST And Rotated BRIEF," *J. Tek. ITS*, vol. 5, no. 2, pp. 5–8, 2016, doi: 10.12962/j23373539.v5i2.16825.
- [3] Ismiyati, "Mobilitas Transportasi Dikaitkan Dengan Pemilihan Tempat Tinggal Di Kawasan Pinggiran Kota Semarang," Universitas Diponegoro Semarang, 2011.
- [4] A. Syukri, "Studi Volume Lalu Lintas Di Jalan Raya Narogong Cileungsi, Kabupaten Bogor, Periode Agustus 2011," *Majalah Ilmiah Widya Kopertis Wilayah 3*, 2013.
- [5] Ieksomono suryo Putranto, "Rekaya Lalulintas Edisi 3." 2016.
- [6] M. Won, S. Sahu, and K. J. Park, "DeepWiTraffic: Low cost WiFi-based traffic monitoring system using deep learning," *Proc. - 2019 IEEE 16th Int. Conf. Mob. Ad Hoc Smart Syst. MASS 2019*, pp. 476–484, 2019, doi: 10.1109/MASS.2019.00062.
- [7] Indrabayu, Basri, A. Achmad, I. Nurtanio, and F. Mayasari, "Blob Modification in Counting Vehicles using Gaussian Mixture Models under Heavy traffic," in *ARPN Journal of Engineering and Applied Sciences*, 2015, vol. 10, no. 16, pp. 7157–7163.
- [8] Basri, Indrabayu, and A. Achmad, "Gaussian Mixture Models optimization for counting the numbers of vehicle by adjusting the Region of Interest under heavy traffic condition," in *International Seminar on Intelligent Technology and Its Applications, Proceeding (ISITIA)*, 2015, pp. 245–249. doi: 10.1109/ISITIA.2015.7219986.

- [9] N. Seenouvong, U. Watchareeruetai, C. Nuthong, K. Khongsomboon, and N. Ohnishi, "Vehicle detection and classification system based on virtual detection zone," 2016. doi: 10.1109/JCSSE.2016.7748886.
- [10] Indrabayu, R. Y. Bakti, I. S. Areni, and A. A. Prayogi, "Vehicle detection and tracking using Gaussian Mixture Model and Kalman Filter," in *Proceedings - CYBERNETICSCOM 2016: International Conference on Computational Intelligence and Cybernetics*, 2017, pp. 115–119. doi: 10.1109/CyberneticsCom.2016.7892577.
- [11] M. Huzaifa and I. S. Suwardi, "Car Model Recognition from Frontal Image using BRISK," in *International Conference on Electrical Engineering and Computer Science (ICECOS)*, 2017, pp. 104–108. doi: 10.1109/ICECOS.2017.8167114.
- [12] K. K. A. Sahayaraj and K. Venkatachalapathy, "An automatic vehicle type classification and counting based on deep learning in traffic environment," *Int. J. Recent Technol. Eng.*, vol. 7, no. 5, pp. 101–106, 2019.
- [13] C. C. Tsai, C. K. Tseng, H. C. Tang, and J. I. Guo, "Vehicle Detection and Classification based on Deep Neural Network for Intelligent Transportation Applications," in *2018 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference, APSIPA ASC 2018 - Proceedings*, 2019, no. November, pp. 1605–1608. doi: 10.23919/APSIPA.2018.8659542.
- [14] F. Lahinta, Z. Zainuddin, and S. Syarif, "Vehicle Detection and Counting to Identify Traffic Density in The Intersection of Road Using Image Processing," *Int. Conf. Sci. Technol.*, vol. 1, 2019, doi: 10.4108/eai.2-5-2019.2284706.
- [15] L. Kabbai, M. Abdellaoui, and A. Douik, "Image classification by combining local and global features," *Vis. Comput.*, vol. 35, no. 5, pp. 679–693, 2019, doi: 10.1007/s00371-018-1503-0.
- [16] Y. Yu, J. Wang, J. Lu, Y. Xie, and Z. Nie, "Vehicle logo recognition based on overlapping enhanced patterns of oriented edge

- magnitudes,” in *Computers and Electrical Engineering*, 2018, vol. 71, no. June, pp. 273–283. doi: 10.1016/j.compeleceng.2018.07.045.
- [17] S. Han and N. Vasconcelos, “Object-based regions of interest for image compression,” in *Data Compression Conference Proceedings*, no. May, pp. 132–141.
- [18] S. O’Hara and B. A. Draper, “Introduction to the Bag of Features Paradigm for Image Classification and Retrieval,” no. July, pp. 1–25, 2011, [Online]. Available: <http://arxiv.org/abs/1101.3354>
- [19] M. A. Manzoor and Y. Morgan, “Vehicle Make and Model classification system using bag of SIFT features,” 2017. doi: 10.1109/CCWC.2017.7868475.
- [20] H. Iskandar, “VOLUME LALU-LINTAS RENCANA UNTUK GEOMETRIK DAN PERKERASAN JALAN,” vol. L, 2007.
- [21] Hanok Mandaku, “Studi Penerapan Intelligent Transportation System ( Its ),” vol. 04, no. 1, 2010.
- [22] W. Robert B.Fisher, *Dictionary of Computer vision and Image Processing, 2nd*, Ed. Bandung. 2013.
- [23] et al Sutoyo, *Teori Pengolahan Citra Digital*. Andi, 2009.
- [24] Z. Q. Zhao, P. Zheng, S. T. Xu, and X. Wu, “Object Detection with Deep Learning: A Review,” *IEEE Trans. Neural Networks Learn. Syst.*, vol. 30, no. 11, pp. 3212–3232, 2019, doi: 10.1109/TNNLS.2018.2876865.
- [25] J. S. Kulchandani and K. J. Dangarwala, “Moving object detection: Review of recent research trends,” *2015 Int. Conf. Pervasive Comput. Adv. Commun. Technol. Appl. Soc. ICPC 2015*, vol. 00, no. c, pp. 1–5, 2015, doi: 10.1109/PERVASIVE.2015.7087138.
- [26] A. H. Pratomo, W. Kaswidjanti, and S. Mu’arifah, “Implementasi Algoritma Region of Interest ( ROI ) Untuk Meningkatkan Performa Algoritma Deteksi Dan Klasifikasi Kendaraan,” *J. Teknol. Inf. dan Ilmu Komput.*, vol. 7, no. 1, pp. 155–162, 2020, doi: 10.25126/jtiik.202071718.

- [27] D. A. Lisin, M. A. Mattar, M. B. Blaschko, M. C. Benfield, and E. G. Learned-Miller, "Combining local and global image features for object class recognition," *IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit. Work.*, vol. 2005-Sept, 2005, doi: 10.1109/CVPR.2005.433.
- [28] R. Y. S. Leutenegger Stefan, Margarita Chli, "BRISK: Binary Robust Invariant Scalable Keypoints." *Computer Vision (ICCV)*, in *International Conference on Computer Vision*, 2011, pp. 2548–2555. doi: 10.1109/ICCV.2011.6126542.
- [29] Y. Liu, H. Zhang, H. Guo, and N. N. Xiong, "A FAST-BRISK feature detector with depth information," *Sensors (Switzerland)*, vol. 18, no. 11, 2018, doi: 10.3390/s18113908.
- [30] Z. Efendi and M. Mustakim, "Text Mining Classification sebagai Rekomendasi Dosen Pembimbing Tugas Akhir Program Studi Sistem Informasi," *Semin. Nas. Teknol. Inf. Komun. dan Ind.*, vol. 0, no. 0, pp. 235–242, 2017, [Online]. Available: <http://ejournal.uin-suska.ac.id/index.php/SNTIKI/article/view/3273>
- [31] B. Pawar, V. T. Humbe, and L. Kundhani, "Morphology based moving vehicle detection," in *Proceedings of the 2017 International Conference On Big Data Analytics and Computational Intelligence, ICBDACI 2017*, 2017, pp. 217–223. doi: 10.1109/ICBDACI.2017.8070837.
- [32] D. Zhang, J. Wang, and X. Zhao, "Estimating the uncertainty of average F1 scores," *ICTIR 2015 - Proc. 2015 ACM SIGIR Int. Conf. Theory Inf. Retr.*, pp. 317–320, 2015, doi: 10.1145/2808194.2809488.