

DAFTAR PUSTAKA

- [1] H. Oliveira and P. L. Correia, "Road surface *crack* detection: Improved segmentation with pixel-based refinement," in 2017 25th European Signal Processing Conference (EUSIPCO), pp. 2026–2030, 2017.
- [2] N. A. Munggarani And A. Wibowo, "Kajian Faktor-Faktor Penyebab Kerusakan Dini Perkerasan Jalan Lentur Dan Pengaruhnya Terhadap Biaya Penanganan," *Jurnal Infrastruktur*, Vol. 3, No. 01, P. 10, 2017.
- [3] S. Bang, S. Park, H. Kim, Y. Yoon, and H. Kim, "A Deep Residual Network with Transfer Learning for Pixel-level Road Crack Detection," presented at the 34th International Symposium on Automation and Robotics in Construction, Taipei, Taiwan, Jul. 2018.
- [4] R. Medina, J. Llamas, E. Zalama, and J. Gomez-Garcia-Bermejo, "Enhanced automatic detection of road surface *cracks* by combining 2D/3D image processing techniques," in 2014 IEEE International Conference on Image Processing (ICIP), pp. 778–782, 2014.
- [5] L. Zhang, F. Yang, Y. Daniel Zhang, and Y. J. Zhu, "Road *crack* detection using deep Convolution neural network," in *2016 IEEE International Conference on Image Processing (ICIP)*, pp. 3708–3712. 2016.
- [6] V. Mandal, L. Uong, and Y. Adu-Gyamfi, "Automated Road Crack Detection Using Deep Convolution Neural Networks," in *2018 IEEE International Conference on Big Data (Big Data)*, pp. 5212–5215, 2018.
- [7] B. Pitaloka, B. Pitaloka, A. Putra, and S. Lestari, "Implementasi Metode Forward Chaining Dan Backward Chaining Dalam Mendeteksi Kerusakan Pada Prasarana Lalu Lintas," 2023.
- [8] D. Ma, H. Fang, N. Wang, B. Xue, J. Dong, and F. Wang, "A real-time *crack* detection algorithm for pavement based on CNN with multiple feature *layers*," *Road Materials and Pavement Design*, vol. 23, no. 9, pp. 2115–2131, Sep. 2022.

- [9] S. A. Shifani, P. Thulasiram, K. Narendran, and D. R. Sanjay, "A Study of Methods using Image Processing Technique in Crack Detection," in *2020 2nd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)*, pp. 578–582, 2020.
- [10] A. N. Utomo, "Extraction Data Analysis Of Histogram Moment Image And Comparison Of Classification Algorithm Models Of Naive Bayes, Nearest Neighbor, Support Vector Machine, And Decision Tree In Case Study Of Damaged Asphalt And Undamaged Asphalt Road Images," vol. 9, 2020.
- [11] N. Neneng, A. S. Puspaningrum, and A. A. Aldino, "Perbandingan Hasil Klasifikasi Jenis Daging Menggunakan Ekstraksi Ciri Tekstur Gray Level Co-occurrence Matrices (GLCM) Dan Local Binary Pattern (LBP)," *SMATIKA*, vol. 11, no. 01, pp. 48–52, Jul. 2021.
- [12] F. M. Sarimole and M. I. Fadillah, "Classification Of Guarantee Fruit Murability Based on HSV Image With K-Nearest Neighbor," *JAETS*, vol. 4, no. 1, pp. 48–57, Sep. 2022.
- [13] D. S. Guru, "Texture Features and KNN in Classification of Flower Images".
- [14] N. Rasiwasia and N. Vasconcelos, "Latent Dirichlet Allocation Models for Image Classification," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 35, no. 11, pp. 2665–2679, Nov. 2013.
- [15] P. Zhu, J. Isaacs, B. Fu, and S. Ferrari, "Deep learning feature extraction for target recognition and classification in underwater sonar images," in *2017 IEEE 56th Annual Conference on Decision and Control (CDC)*, Melbourne, Australia: IEEE, pp. 2724–2731, 2017.
- [16] T. Guo, J. Dong, H. Li, and Y. Gao, "Simple Convolution neural network on image classification," in *2017 IEEE 2nd International Conference on Big Data Analysis (ICBDA)*, pp. 721–724, 2017.
- [17] N. Shatnawi, "Automatic Pavement Cracks Detection using Image Processing Techniques and Neural Network," *ijacsa*, vol. 9, no. 9, 2018.

- [18] S. Riyadi, F. Yusfida A'la, C. Oktomy, and K. Hawari Ghazali, "Road Surface Crack Detection using Wavelets Features Extraction Technique," *Indian Journal of Science and Technology*, vol. 9, no. 47, Dec. 2016.
- [19] R. Chauhan, K. K. Ghanshala, and R. C. Joshi, "Convolution Neural Network (CNN) for Image Detection and Recognition," in *2018 First International Conference on Secure Cyber Computing and Communication 61 Universitas Sultan Ageng Tirtayasa (ICSCCC)*, Jalandhar, India, Dec. 2018, pp. 278–282..
- [20] S. Singha and B. Aydin, "Automated Drone Detection Using YOLOv4," *Drones*, vol. 5, no. 3, p. 95, Sep. 2021.
- [21] J. Redmon and A. Farhadi, "YOLOv3: An Incremental Improvement," arXiv:1804.02767 [cs], Apr. 2018, Accessed: Mar. 30, 2022. [Online]. Available: <http://arxiv.org/abs/1804.02767>
- [22] Pemerintah Indonesia, "Undang - Undang Republik Indonesia No. 22 Tahun 2009 Tentang Lalu Lintas dan Angkutan Jalan. Lembaran Negara Republik Indonesia Tahun 2009, No. 96," Sekretariat Negara, Jakarta, 2009.
- [23] Shahin, M. Y. (1994), *Pavement management for airports, roads, and parking lots*.
- [24] Ikhwanul, F. Yudaningrum, "Analisis Kerusakan Retak Padar Ruas Jalan Kedungmundu-Metesih Serta Metode Perbaikannya," *Prosiding Seminar Nasional*, ISBN: 978-602-14020-3-0, 2016.
- [25] Putra, Darma, (2010). *Pengolahan Citra Digital*. Yogyakarta: Penerbit Andi.
- [26] W. S. Eka Putra, "Klasifikasi Citra Menggunakan Convolution Neural Network (CNN) pada Caltech 101," *JTITS*, vol. 5, no. 1, Mar. 2016.
- [27] Redmon, J., Divvala, S., Girshick, R. dan Farhadi, A., You only look once: Unifed, real-time object detection, in 'Proceedings of the IEEE Conference on computer vision and pattern recognition', pp. 779-788, 2016.

- [28] B. Sasmito, B. H. Setiadji, and R. Isnanto, "Deteksi Kerusakan Jalan Menggunakan Pengolahan Citra Deep Learning di Kota Semarang," *TEKNIK*, vol. 44, no. 1, pp. 7-14, 2023.
- [29] S. Jana, S. Thangam, A. Kishore, V. Sai Kumar, and S. Vandana, "Transfer learning based deep Convolution neural network model for pavement *crack* detection from images," *IJNAA*, vol. 13, no. 1, Jan. 2022.
- [30] N. Safaei, O. Smadi, A. Masoud, and B. Safaei, "An Automatic Image Processing Algorithm Based on Crack Pixel Density for Pavement Crack Detection and Classification," *Int. J. Pavement Res. Technol.*, vol. 15, no. 1, pp. 159–172, Jan. 2022.
- [31] S. Liu, Y. Han, and L. Xu, "Recognition of road *cracks* based on multi-scale Retinex fused with wavelet transform," *Array*, vol. 15, p. 100193, Sep. 2022.
- [32] A. Ashraf, A. Sophian, A. A. Shafie, T. S. Gunawan, N. N. Ismail, and A. A. Bawono, "Detection of Road Cracks Using Convolution Neural Networks and Threshold Segmentation," *JIAE*, vol. 2, no. 2, pp. 123–134, Sep. 2022.