

DAFTAR PUSTAKA

- [1] S. Minaee, Y. Boykov, F. Porikli, A. Plaza, N. Kehtarnavaz, dan D. Terzopoulos, "Image Segmentation Using Deep Learning: A Survey," *IEEE Trans Pattern Anal Mach Intell*, vol. 44, no. 7, hlm. 3523–3542, Jul 2022, doi: 10.1109/TPAMI.2021.3059968.
- [2] M. D. Sulistiyo, Y. Kawanishi, D. Deguchi, I. Ide, T. Hirayama, dan H. Murase, "ColAtt-Net: In Reducing the Ambiguity of Pedestrian Orientations on Attribute-Aware Semantic Segmentation Task," *IEEE Transactions on Electrical and Electronic Engineering*, vol. 16, no. 2, hlm. 295–306, Feb 2021, doi: 10.1002/tee.23296.
- [3] V. Pradeep, R. Khemmar, L. Lecrosnier, Y. Duchemin, R. Rossi, dan B. Decoux, "Self-Supervised Sidewalk Perception Using Fast Video Semantic Segmentation for Robotic Wheelchairs in Smart Mobility," *Sensors*, vol. 22, no. 14, Jul 2022, doi: 10.3390/s22145241.
- [4] J. Xu, Z. Huang, L. Liu, X. Li, dan K. Wei, "Eye-Gaze Controlled Wheelchair Based on Deep Learning," *Sensors*, vol. 23, no. 13, Jul 2023, doi: 10.3390/s23136239.
- [5] V. Gallo, I. Shallari, M. Carratù, V. Laino, dan C. Liguori, "Design and Characterization of a Powered Wheelchair Autonomous Guidance System," *Sensors*, vol. 24, no. 5, Mar 2024, doi: 10.3390/s24051581.
- [6] B. Fariña, D. Acosta, J. Toledo, dan L. Acosta, "Improving Odometric Model Performance Based on LSTM Networks," *Sensors*, vol. 23, no. 2, Jan 2023, doi: 10.3390/s23020961.
- [7] M. T. Shahria dan M. H. Rahman, "Activities of Daily Living Object Dataset: Advancing Assistive Robotic Manipulation with a Tailored Dataset," *Sensors*, vol. 24, no. 23, Des 2024, doi: 10.3390/s24237566.
- [8] H. Majidifard, Y. Adu-Gyamfi, dan W. G. Buttlar, "Deep machine learning approach to develop a new asphalt pavement condition index," *Constr Build Mater*, vol. 247, 2020, doi: 10.1016/j.conbuildmat.2020.118513.
- [9] D. Chong, P. Liao, dan W. Fu, "Multi-Objective Optimization for Sustainable Pavement Maintenance Decision Making by Integrating Pavement Image Segmentation and TOPSIS Methods," *Sustainability (Switzerland)*, vol. 16, no. 3, 2024, doi: 10.3390/su16031257.
- [10] J. Kang dan S. Feng, "Pavement Cracks Segmentation Algorithm Based on Conditional Generative Adversarial Network," *Sensors*, vol. 22, no. 21, 2022, doi: 10.3390/s22218478.
- [11] X. Huang, C. Liang, X. Li, dan F. Kang, "An Underwater Crack Detection System Combining New Underwater Image-Processing Technology and

- an Improved YOLOv9 Network,” *Sensors*, vol. 24, no. 18, Sep 2024, doi: 10.3390/s24185981.
- [12] J. Wu, W. Liu, dan Y. Maruyama, “Street View Image-Based Road Marking Inspection System Using Computer Vision and Deep Learning Techniques †,” *Sensors*, vol. 24, no. 23, Des 2024, doi: 10.3390/s24237724.
 - [13] Z. Shu, Z. Yan, dan X. Xu, “Pavement Crack Detection Method of Street View Images Based on Deep Learning,” *J Phys Conf Ser*, vol. 1952, no. 2, 2021, doi: 10.1088/1742-6596/1952/2/022043.
 - [14] J. Ding, P. Jiao, K. Li, dan W. Du, “Road surface crack detection based on improved YOLOv5s,” *Mathematical Biosciences and Engineering*, vol. 21, no. 3, hlm. 4269–4285, 2024, doi: 10.3934/mbe.2024188.
 - [15] W. Xu, X. Li, Y. Ji, S. Li, dan C. Cui, “BD-YOLOv8s: enhancing bridge defect detection with multidimensional attention and precision reconstruction,” *Sci Rep*, vol. 14, no. 1, Des 2024, doi: 10.1038/s41598-024-69722-8.
 - [16] X. Wang, H. Gao, Z. Jia, dan Z. Li, “BL-YOLOv8: An Improved Road Defect Detection Model Based on YOLOv8,” *Sensors (Basel)*, vol. 23, no. 20, Okt 2023, doi: 10.3390/s23208361.
 - [17] R. Wen, C. Tao, H. Ji, dan J. Qiu, “Classification, Localization and Quantization of Eddy Current Detection Defects in CFRP Based on EDC-YOLO,” *Sensors*, vol. 24, no. 20, Okt 2024, doi: 10.3390/s24206753.
 - [18] T. Li dan G. Li, “Road Defect Identification and Location Method Based on an Improved ML-YOLO Algorithm,” *Sensors*, vol. 24, no. 21, Nov 2024, doi: 10.3390/s24216783.
 - [19] X. Chen *dkk.*, “Autonomous Crack Detection for Mountainous Roads Using UAV Inspection System,” *Sensors*, vol. 24, no. 14, Jul 2024, doi: 10.3390/s24144751.
 - [20] S. Zhang, Z. Bei, T. Ling, Q. Chen, dan L. Zhang, “Research on high-precision recognition model for multi-scene asphalt pavement distresses based on deep learning,” *Sci Rep*, vol. 14, no. 1, Des 2024, doi: 10.1038/s41598-024-77173-4.
 - [21] Z. Han, Y. Cai, A. Liu, Y. Zhao, dan C. Lin, “MS-YOLOv8-Based Object Detection Method for Pavement Diseases,” *Sensors*, vol. 24, no. 14, Jul 2024, doi: 10.3390/s24144569.
 - [22] X. Dong, Y. Liu, dan J. Dai, “Concrete Surface Crack Detection Algorithm Based on Improved YOLOv8,” *Sensors*, vol. 24, no. 16, Agu 2024, doi: 10.3390/s24165252.
 - [23] M. Sohaib, M. J. Hasan, M. A. Shah, dan Z. Zheng, “A robust self-supervised approach for fine-grained crack detection in concrete

- structures,” *Sci Rep*, vol. 14, no. 1, Des 2024, doi: 10.1038/s41598-024-63575-x.
- [24] J. Wang *dkk.*, “Road defect detection based on improved YOLOv8s model,” *Sci Rep*, vol. 14, no. 1, Des 2024, doi: 10.1038/s41598-024-67953-3.
 - [25] S. Cano-Ortiz, E. Sainz-Ortiz, L. Lloret Iglesias, P. Martínez Ruiz del Árbol, dan D. Castro-Fresno, “Leveraging a deep learning generative model to enhance recognition of minor asphalt defects,” *Sci Rep*, vol. 14, no. 1, Des 2024, doi: 10.1038/s41598-024-80199-3.
 - [26] H. Tan dan S. Dong, “Pixel-Level Concrete Crack Segmentation Using Pyramidal Residual Network with Omni-Dimensional Dynamic Convolution,” *Processes*, vol. 11, no. 2, 2023, doi: 10.3390/pr11020546.
 - [27] L. Deng, A. Zhang, J. Guo, dan Y. Liu, “An Integrated Method for Road Crack Segmentation and Surface Feature Quantification under Complex Backgrounds,” *Remote Sens (Basel)*, vol. 15, no. 6, 2023, doi: 10.3390/rs15061530.
 - [28] L. Piyathilaka, D. M. G. Preethichandra, U. Izar, dan G. Kahandawa, “Real-time Concrete Crack Detection and Instance Segmentation using Deep Transfer Learning,” hlm. 1, 2020, doi: 10.3390/proceedings2019005001.
 - [29] E. Ibragimov, Y. Kim, J. H. Lee, J. Cho, dan J. J. Lee, “Automated Pavement Condition Index Assessment with Deep Learning and Image Analysis: An End-to-End Approach,” *Sensors*, vol. 24, no. 7, Apr 2024, doi: 10.3390/s24072333.
 - [30] Z. Yu, “YOLO V5s-based Deep Learning Approach for Concrete Cracks Detection,” *SHS Web of Conferences*, vol. 144, hlm. 03015, 2022, doi: 10.1051/shsconf/202214403015.
 - [31] S. K. Gooda, N. Chinthamu, S. T. Selvan, V. Rajakumareswaran, dan G. B. Paramasivam, “Automatic Detection of Road Cracks using EfficientNet with Residual U-Net-based Segmentation and YOLOv5-based Detection,” *International Journal on Recent and Innovation Trends in Computing and Communication*, vol. 11, no. January, hlm. 84–91, 2023, doi: 10.17762/ijritcc.v11i4s.6310.
 - [32] C. Xiong, T. Zayed, X. Jiang, G. Alfalah, dan E. M. Abelkader, “A Novel Model for Instance Segmentation and Quantification of Bridge Surface Cracks—The YOLOv8-AFPN-MPD-IoU,” *Sensors*, vol. 24, no. 13, Jul 2024, doi: 10.3390/s24134288.
 - [33] L. Shen *dkk.*, “Fusing attention mechanism with Mask R-CNN for instance segmentation of grape cluster in the field,” *Front Plant Sci*, vol. 13, Jul 2022, doi: 10.3389/fpls.2022.934450.

- [34] R. M. Sampurno, Z. Liu, R. M. R. D. Abeyrathna, dan T. Ahamed, "Intrarow Uncut Weed Detection Using You-Only-Look-Once Instance Segmentation for Orchard Plantations," *Sensors*, vol. 24, no. 3, Feb 2024, doi: 10.3390/s24030893.
- [35] Y. Zhang, B. Chen, J. Wang, J. Li, dan X. Sun, "APICnet: Automatic pixel-level crack detection network based on instance segmentation," *IEEE Access*, vol. 8, hlm. 199159–199170, 2020, doi: 10.1109/ACCESS.2020.3033661.
- [36] M. Yaseen, "What is YOLOv8: An In-Depth Exploration of the Internal Features of the Next-Generation Object Detector," Agu 2024, [Daring]. Tersedia pada: <http://arxiv.org/abs/2408.15857>
- [37] M. Yaseen, "What is YOLOv9: An In-Depth Exploration of the Internal Features of the Next-Generation Object Detector," Sep 2024, [Daring]. Tersedia pada: <http://arxiv.org/abs/2409.07813>
- [38] M. A. R. Alif, "YOLOv11 for Vehicle Detection: Advancements, Performance, and Applications in Intelligent Transportation Systems," Okt 2024, [Daring]. Tersedia pada: <http://arxiv.org/abs/2410.22898>
- [39] Z. Liu dkk., "Enhanced YOLOv5 network-based object detection (BALFilter Reader) promotes PERFECT filter-enabled liquid biopsy of lung cancer from bronchoalveolar lavage fluid (BALF)," *Microsyst Nanoeng*, vol. 9, no. 1, Des 2023, doi: 10.1038/s41378-023-00580-6.
- [40] S. Y. Park, J. H. Kim, J. H. Chang, J. M. Park, C. H. Choi, dan J. I. Kim, "Quantitative evaluation of radiodermatitis following whole-breast radiotherapy with various color space models: A feasibility study," *PLoS One*, vol. 17, no. 3 March, Mar 2022, doi: 10.1371/journal.pone.0264925.
- [41] M. Joh dkk., "An ensemble model of machine learning regression techniques and color spaces integrated with a color sensor: application to color-changing biochemical assays," *RSC Adv*, vol. 15, no. 3, hlm. 1754–1765, Jan 2025, doi: 10.1039/d4ra07510b.
- [42] W. Panyarak, K. Wantanajittikul, A. Charuakkra, S. Prapayasatok, dan W. Suttapak, "Enhancing Caries Detection in Bitewing Radiographs Using YOLOv7," *J Digit Imaging*, vol. 36, no. 6, hlm. 2635–2647, Des 2023, doi: 10.1007/s10278-023-00871-4.
- [43] L. Chen, Y. Wu, J. Stegmaier, dan D. Merhof, "SortedAP: Rethinking evaluation metrics for instance segmentation." [Daring]. Tersedia pada: www.github.com/loooooongChen/sortedAP.