

DAFTAR PUSTAKA

- Analysis of Road Lane Detection using Computer Vision.* (2023).
<https://doi.org/10.37628/IJSCT>
- Chen, L.-C., Papandreou, G., Schroff, F., & Adam, H. (2017a). *Rethinking Atrous Convolution for Semantic Image Segmentation.*
<http://arxiv.org/abs/1706.05587>
- Chen, L.-C., Papandreou, G., Schroff, F., & Adam, H. (2017b). *Rethinking Atrous Convolution for Semantic Image Segmentation.*
<http://arxiv.org/abs/1706.05587>
- Chen, L.-C., Zhu, Y., Papandreou, G., Schroff, F., & Adam, H. (2018a). *Encoder-Decoder with Atrous Separable Convolution for Semantic Image Segmentation.* <http://arxiv.org/abs/1802.02611>
- Chen, L.-C., Zhu, Y., Papandreou, G., Schroff, F., & Adam, H. (2018b). *Encoder-Decoder with Atrous Separable Convolution for Semantic Image Segmentation.* <http://arxiv.org/abs/1802.02611>
- Chib, P. S., & Singh, P. (2023). *Recent Advancements in End-to-End Autonomous Driving using Deep Learning: A Survey.* <http://arxiv.org/abs/2307.04370>
- Chicco, D., Warrens, M. J., & Jurman, G. (2021). The coefficient of determination R-squared is more informative than SMAPE, MAE, MAPE, MSE and RMSE in regression analysis evaluation. *PeerJ Computer Science*, 7, 1–24.
<https://doi.org/10.7717/PEERJ-CS.623>
- D121171521_Nublan Azqalani Muis_Skripsi. (n.d.-a).
- Gajjar, H., & Sanyal, S. (2023). AN IN-DEPTH STUDY OF LANE DETECTION FOR AUTONOMOUS CARS USING COMPUTER VISION TECHNIQUES. *International Journal of Engineering Applied Sciences and Technology*, 8(2), 230–242.
<https://doi.org/10.33564/IJEAST.2023.v08i02.035>
- Gao, C., Cai, Q., & Ming, S. (2020). YoloV4 object detection algorithm with efficient channel attention mechanism. *Proceedings - 2020 5th International Conference on Mechanical, Control and Computer Engineering, ICMCCE 2020*, 1764–1770. <https://doi.org/10.1109/ICMCCE51767.2020.00387>

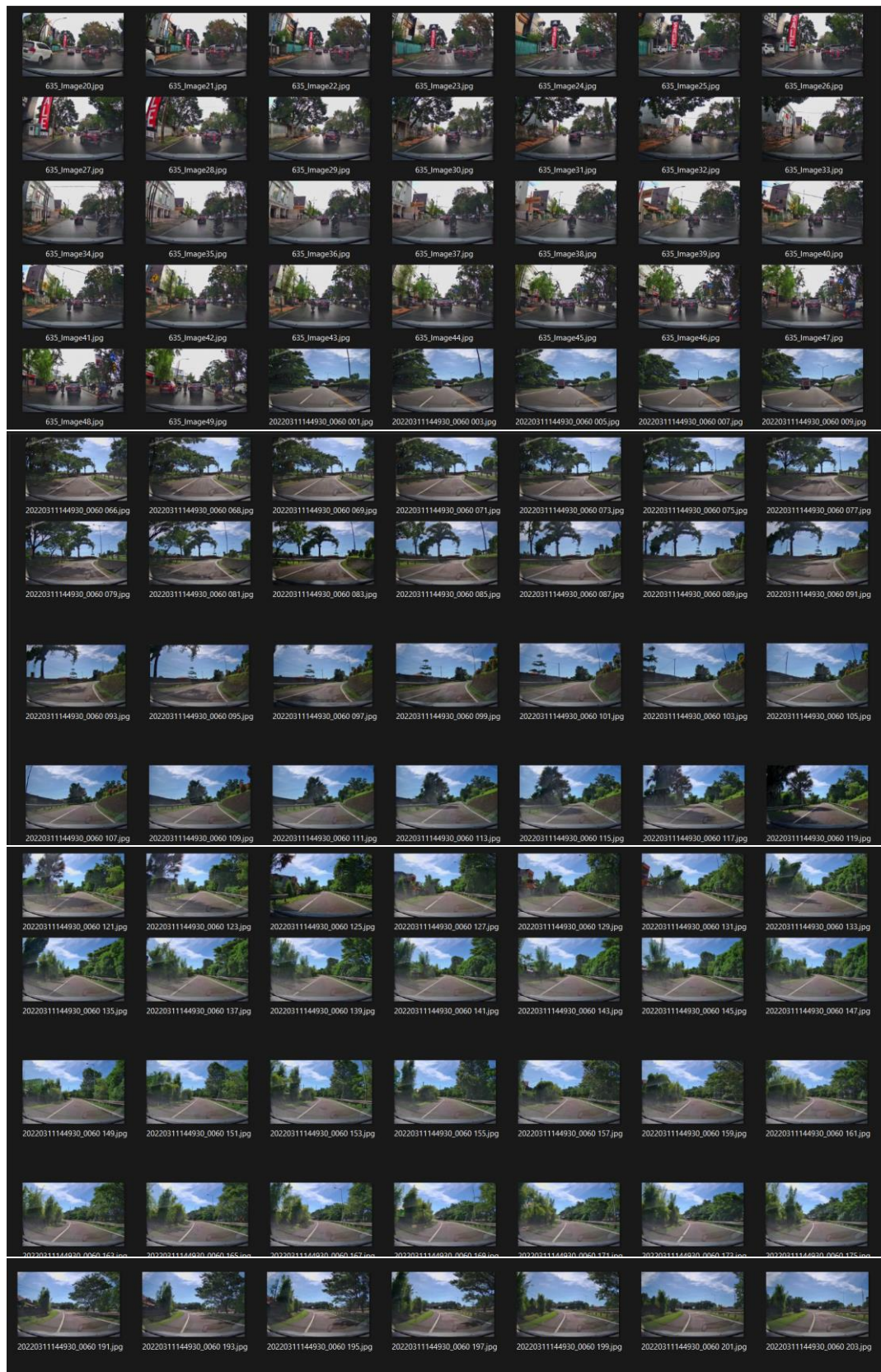
- Gao, Y., Zhang, S., Zuo, D., Yan, W., & Pan, X. (2023). TMNet: A Two-Branch Multi-Scale Semantic Segmentation Network for Remote Sensing Images. *Sensors*, 23(13). <https://doi.org/10.3390/s23135909>
- Grigorescu, S., Trasnea, B., Cocias, T., & Macesanu, G. (2020). A survey of deep learning techniques for autonomous driving. *Journal of Field Robotics*, 37(3), 362–386. <https://doi.org/10.1002/rob.21918>
- Guo, Y., Nie, G., Gao, W., & Liao, M. (2023). 2D Semantic Segmentation: Recent Developments and Future Directions. In *Future Internet* (Vol. 15, Issue 6). MDPI. <https://doi.org/10.3390/fi15060205>
- Han, Z., Chen, H., Liu, Y., Li, Y., Du, Y., & Zhang, H. (2021). Vision-Based Crack Detection of Asphalt Pavement Using Deep Convolutional Neural Network. *Iranian Journal of Science and Technology - Transactions of Civil Engineering*, 45(3), 2047–2055. <https://doi.org/10.1007/s40996-021-00668-x>
- Hu, J., Shen, L., Albanie, S., Sun, G., & Wu, E. (2017). *Squeeze-and-Excitation Networks*. <http://arxiv.org/abs/1709.01507>
- Jusuf, A., Nurprasetio, I. P., & Prihutama, A. (2017). Macro data analysis of traffic accidents in Indonesia. *Journal of Engineering and Technological Sciences*, 49(1), 133–144. <https://doi.org/10.5614/j.eng.technol.sci.2017.49.1.8>
- Kuhn, M., & Johnson, K. (n.d.). *Applied Predictive Modeling*.
- Li, B., & Gu, Y. (2023). A Machine Learning Method for the Quality Detection of Base Liquor and Commercial Liquor Using Multidimensional Signals from an Electronic Nose. *Foods*, 12(7). <https://doi.org/10.3390/foods12071508>
- Li, B., Shi, Y., Qi, Z., & Chen, Z. (2018). A survey on semantic segmentation. *IEEE International Conference on Data Mining Workshops, ICDMW, 2018-November*, 1233–1240. <https://doi.org/10.1109/ICDMW.2018.00176>
- Li, H., Zhang, J., Wang, J., Feng, Z., Liang, B., Xiong, N., Zhang, J., Sun, X., Li, Y., & Lin, S. (2023). Extracting Citrus in Southern China (Guangxi Region) Based on the Improved DeepLabV3+ Network. *Remote Sensing*, 15(23). <https://doi.org/10.3390/rs15235614>
- Long, J., Shelhamer, E., & Darrell, T. (2014). *Fully Convolutional Networks for Semantic Segmentation*. <http://arxiv.org/abs/1411.4038>

- Marpaung, F., Aulia, F., Suryani SKom, N., & Cyra Nabila SKom, R. (n.d.). *COMPUTER VISION DAN PENGOLAHAN CITRA DIGITAL*.
www.pustakaaksara.co.id
- MENTERI PERHUBUNGAN REPUBLIK INDONESIA. (n.d.).
- Muad, A. M., Hussain, A., Samad, S. A., Marzuki Mustaffa, M., & Majlis, B. Y. (n.d.). *IMPLEMENTATION OF INVERSE PERSPECTIVE MAPPING ALGORITHM FOR THE DEVELOPMENT OF AN AUTOMATIC LANE TRACKING SYSTEM*.
- Ondruš, J., Kolla, E., Vertal', P., & Šarić, Ž. (2020). How Do Autonomous Cars Work? *Transportation Research Procedia*, 44, 226–233. <https://doi.org/10.1016/j.trpro.2020.02.049>
- Ozgunalp, U. (2019). Robust lane-detection algorithm based on improved symmetrical local threshold for feature extraction and inverse perspective mapping. *IET Image Processing*, 13(6), 975–982. <https://doi.org/10.1049/iet-ipr.2018.5154>
- Padmaja, B., Moorthy, C. V. K. N. S. N., Venkateswarulu, N., & Bala, M. M. (2023). Exploration of issues, challenges and latest developments in autonomous cars. *Journal of Big Data*, 10(1). <https://doi.org/10.1186/s40537-023-00701-y>
- Pariwat, T., & Seresangtakul, P. (2021). Multi-stroke thai finger-spelling sign language recognition system with deep learning. *Symmetry*, 13(2), 1–19. <https://doi.org/10.3390/sym13020262>
- Patel, R., & Patel, S. (2020). A Comprehensive Study of Applying Convolutional Neural Network for Computer Vision. *International Journal of Advanced Science and Technology*, 29(6s), 2161–2174. <https://www.researchgate.net/publication/344121826>
- Purwono, Ma'arif, A., Rahmaniar, W., Fathurrahman, H. I. K., Frisky, A. Z. K., & Haq, Q. M. U. (2022). Understanding of Convolutional Neural Network (CNN): A Review. *International Journal of Robotics and Control Systems*, 2(4), 739–748. <https://doi.org/10.31763/ijrcs.v2i4.888>

- Rezatofighi, H., Tsoi, N., Gwak, J., Sadeghian, A., Reid, I., & Savarese, S. (2019). *Generalized Intersection over Union: A Metric and A Loss for Bounding Box Regression*. <http://arxiv.org/abs/1902.09630>
- Štifanić, D., Musulin, J., Jurilj, Z., Šegota, S., Lorencin, I., Anđelić, N., Vlahinić, S., Šušteršič, T., Blagojević, A., Filipović, N., & Car, Z. (2021). Semantic segmentation of chest X-ray images based on the severity of COVID-19 infected patients. *EAI Endorsed Transactions on Bioengineering and Bioinformatics*, *1*(3), 170287. <https://doi.org/10.4108/eai.7-7-2021.170287>
- Sumit Singh. (2022, September 26). *Image Segmentation: The Power Behind Self-Driving Car Navigation*.
- Waleed Abdulla. (2018, March 20). *Splash of Color: Instance Segmentation with Mask R-CNN and TensorFlow*.
- Yamashita, R., Nishio, M., Do, R. K. G., & Togashi, K. (2018). Convolutional neural networks: an overview and application in radiology. In *Insights into Imaging* (Vol. 9, Issue 4, pp. 611–629). Springer Verlag. <https://doi.org/10.1007/s13244-018-0639-9>
- Yao, J., Yu, Q., Deng, G., Wu, T., Zheng, D., Lin, G., Zhu, L., & Huang, P. (2022). A Fast and Accurate Obstacle Segmentation Network for Guava-Harvesting Robot via Exploiting Multi-Level Features. *Sustainability (Switzerland)*, *14*(19). <https://doi.org/10.3390/su141912899>
- Yoo, S. S., & Lee, H. S. (2023). An Inverse Perspective Mapping-Based Approach for Generating Panoramic Images of Pipe Inner Surfaces. *Sensors*, *23*(12). <https://doi.org/10.3390/s23125363>
- Yuan, H., Zhu, J., Wang, Q., Cheng, M., & Cai, Z. (2022). An Improved DeepLab v3+ Deep Learning Network Applied to the Segmentation of Grape Leaf Black Rot Spots. *Frontiers in Plant Science*, *13*. <https://doi.org/10.3389/fpls.2022.795410>
- Zeng, H., Peng, S., & Li, D. (2020). Deeplabv3+ semantic segmentation model based on feature cross attention mechanism. *Journal of Physics: Conference Series*, *1678*(1). <https://doi.org/10.1088/1742-6596/1678/1/012106>

Zheng, Q., Shi, Y., Zhao, N., Wang, Z., & Li, H. (2022). Lane Detection Using Q-net Model. *Journal of Physics: Conference Series*, 2347(1).
<https://doi.org/10.1088/1742-6596/2347/1/012012>

Lampiran 1 Contoh Dataset





Lampiran 2 Lembar perbaikan skripsi

LEMBAR PERBAIKAN SKRIPSI

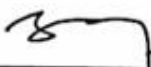
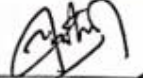

“IMPLEMENTASI *DEEPLABV3+* UNTUK PENINGKATAN DETEKSI DAN *TRACKING* LAJUR JALAN PADA SISTEM *AUTONOMOUS CAR*”

OLEH:

A. Ichsan Mudatsir
D121201009

Skripsi ini telah dipertahankan pada Ujian Akhir Sarjana tanggal 21 Agustus 2024.
Telah dilakukan perbaikan penulisan dan isi skripsi berdasarkan usulan dari penguji dan pembimbing skripsi.

Persetujuan perbaikan oleh tim penguji:

	Nama	Tanda Tangan
Ketua	Prof. Dr. Ir. Indrabayu, S.T., M.T., M.Bus.Sys., IPM, ASEAN. Eng.	
Anggota	Prof. Dr. Eng. Intan Sari Areni, S.T., M.T.	
	Ir. Christoforus Yohannes, M.T.	

Persetujuan Perbaikan oleh pembimbing:

Pembimbing	Nama	Tanda Tangan
I	Prof. Dr. Ir. Indrabayu, S.T., M.T., M.Bus.Sys., IPM, ASEAN. Eng.	