

DAFTAR PUSTAKA

- [1] A. Hidaka and T. Kurita, “Consecutive dimensionality reduction by canonical correlation analysis for visualization of convolutional neural networks,” *Proceedings of the ISCIE International Symposium on Stochastic Systems Theory and its Applications*, vol. 2017, p. 160–167, 2017.
- [2] “2d convolution block: Peltarion platform.” [Online]. Available: <https://peltarion.com/knowledge-center/modeling-view/build-an-ai-model/blocks/2d-convolution>
- [3] B. D. Hammel, “What learning rate should i use?” Mar 2019. [Online]. Available: <http://www.bdhammel.com/learning-rates/>
- [4] W. Wang and X. Yuan, “Recent advances in image dehazing,” *IEEE/CAA Journal of Automatica Sinica*, vol. 4, no. 3, p. 410–436, 2017.
- [5] Y. Yu, H. Liu, M. Fu, J. Chen, X. Wang, and K. Wang, “A two-branch neural network for non-homogeneous dehazing via ensemble learning,” *2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2021.
- [6] C. Sakaridis, D. Dai, and L. V. Gool, “Semantic foggy scene understanding with synthetic data,” *International Journal of Computer Vision*, vol. 126, no. 9, p. 973–992, 2018.
- [7] G. Jocher, A. Stoken, J. Borovec, NanoCode012, A. Chaurasia, TaoXie, L. Changyu, A. V. Laughing, Tkianai, and et al., “ultralytics/yolov5: v5.0 - yolov5-p6 1280 models, aws, supervise.ly and youtube integrations,” Apr 2021. [Online]. Available: <https://doi.org/10.5281/zenodo.4679653>
- [8] F. Munir, S. Azam, M. I. Hussain, A. M. Sheri, and M. Jeon, “Autonomous vehicle,” *Proceedings of the 2018 International Conference on Sensors, Signal and Image Processing - SSIP 2018*, 2018.
- [9] S. Zang, M. Ding, D. Smith, P. Tyler, T. Rakotoarivelo, and M. A. Kaafar, “The impact of adverse weather conditions on autonomous vehicles: How rain, snow, fog, and hail affect the performance of a self-driving car,” *IEEE Vehicular Technology Magazine*, vol. 14, no. 2, p. 103–111, 2019.

- [10] B. Li, X. Peng, Z. Wang, J. Xu, and D. Feng, “Aod-net: All-in-one dehazing network,” *2017 IEEE International Conference on Computer Vision (ICCV)*, 2017.
- [11] S.-C. Huang, T.-H. Le, and D.-W. Jaw, “Dsnet: Joint semantic learning for object detection in inclement weather conditions,” *IEEE Transactions on Pattern Analysis and Machine Intelligence*, p. 1–1, 2020.
- [12] Z. Zhao, P. Zheng, S. Xu, and X. Wu, “Object detection with deep learning: A review,” *CoRR*, vol. abs/1807.05511, 2018. [Online]. Available: <http://arxiv.org/abs/1807.05511>
- [13] S. R. Ajeet Ram Pathaka, Manjusha Pandeya, “Application of deep learning for object detection,” May 2018.
- [14] M. Carranza-García, J. Torres-Mateo, P. Lara-Benítez, and J. García-Gutiérrez, “On the performance of one-stage and two-stage object detectors in autonomous vehicles using camera data,” *Remote Sensing*, vol. 13, no. 1, p. 89, 2020.
- [15] S. S. A. Zaidi, M. S. Ansari, A. Aslam, N. Kanwal, M. N. Asghar, and B. A. Lee, “A survey of modern deep learning based object detection models,” *CoRR*, vol. abs/2104.11892, 2021. [Online]. Available: <https://arxiv.org/abs/2104.11892>
- [16] W. Liu, D. Anguelov, D. Erhan, C. Szegedy, S. Reed, C.-Y. Fu, and A. C. Berg, “Ssd: Single shot multibox detector,” *Computer Vision – ECCV 2016 Lecture Notes in Computer Science*, p. 21–37, 2016.
- [17] J. Redmon and A. Farhadi, “Yolo9000: Better, faster, stronger,” *2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017.
- [18] J. Van Brummelen, M. O’Brien, D. Gruyer, and H. Najjaran, “Autonomous vehicle perception: The technology of today and tomorrow,” *Transportation Research Part C: Emerging Technologies*, vol. 89, p. 384–406, 2018.
- [19] A. Krizhevsky, I. Sutskever, and G. E. Hinton, “Imagenet classification with deep convolutional neural networks,” *Communications of the ACM*, vol. 60, no. 6, p. 84–90, 2017.
- [20] K. O’Shea and R. Nash, “An introduction to convolutional neural networks,” *CoRR*, vol. abs/1511.08458, 2015. [Online]. Available: <http://arxiv.org/abs/1511.08458>

- [21] R. L. Galvez, A. A. Bandala, E. P. Dadios, R. R. P. Vicerra, and J. M. Z. Maningo, "Object detection using convolutional neural networks," pp. 2023–2027, 2018.
- [22] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, "You only look once: Unified, real-time object detection," *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.
- [23] M. Kalinina and P. Nikolaev, "Research of yolo architecture models in book detection," *Proceedings of the 8th Scientific Conference on Information Technologies for Intelligent Decision Making Support (ITIDS 2020)*, 2020.
- [24] D. Thuan, "Evolution of yolo algorithm and yolov5: The state-of-the-art object detection algorithm," 2021.
- [25] A. Bochkovskiy, C. Wang, and H. M. Liao, "Yolov4: Optimal speed and accuracy of object detection," *CoRR*, vol. abs/2004.10934, 2020. [Online]. Available: <https://arxiv.org/abs/2004.10934>
- [26] C.-Y. Wang, H.-Y. M. Liao, Y.-H. Wu, P.-Y. Chen, J.-W. Hsieh, and I.-H. Yeh, "Cspnet: A new backbone that can enhance learning capability of cnn," *2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2020.
- [27] F. Hutter, L. Kotthoff, and J. Vanschoren, *Automated machine learning: methods, systems, challenges*. Springer Nature, 2019.
- [28] G. I. Diaz, A. Fokoue-Nkoutche, G. Nannicini, and H. Samulowitz, "An effective algorithm for hyperparameter optimization of neural networks," *IBM Journal of Research and Development*, vol. 61, no. 4/5, pp. 9–1, 2017.
- [29] D. R. Wilson and T. R. Martinez, "The need for small learning rates on large problems," in *IJCNN'01. International Joint Conference on Neural Networks. Proceedings (Cat. No. 01CH37222)*, vol. 1. IEEE, 2001, pp. 115–119.
- [30] P. M. Radiuk, "Impact of training set batch size on the performance of convolutional neural networks for diverse datasets," 2017.
- [31] S.-H. Gao, M.-M. Cheng, K. Zhao, X.-Y. Zhang, M.-H. Yang, and P. Torr, "Res2net: A new multi-scale backbone architecture," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, vol. 43, no. 2, p. 652–662, 2021.

- [32] M. Cordts, M. Omran, S. Ramos, T. Rehfeld, M. Enzweiler, R. Benenson, U. Franke, S. Roth, and B. Schiele, “The cityscapes dataset for semantic urban scene understanding,” *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.