

DAFTAR PUSTAKA

- Alkhaldi, T. M., Essam, N., Al-Khazaali, A. A. T., Alhamdany, M. A., Hataf, B. A., Ramadhan, A. J., & TaeiZadeh, A. (2024). A Survey Study of the Deep Learning for Convolutional Neural Network Architecture. *BIO Web of Conferences*, 97. <https://doi.org/10.1051/bioconf/20249700083>
- Badrinarayanan, V., Handa, A., & Cipolla, R. (2015). SegNet: A Deep Convolutional Encoder-Decoder Architecture for Robust Semantic Pixel-Wise Labelling. <http://arxiv.org/abs/1505.07293>
- Buslaev, A., Parinov, A., Khvedchenya, E., Iglovikov, V. I., & Kalinin, A. A. (2018). Alumentations: fast and flexible image augmentations. <https://doi.org/10.3390/info11020125>
- Chen, L.-C., Papandreou, G., Schroff, F., & Adam, H. (2017). Rethinking Atrous Convolution for Semantic Image Segmentation. <http://arxiv.org/abs/1706.05587>
- Chen, L.-C., Zhu, Y., Papandreou, G., Schroff, F., & Adam, H. (2018). Encoder-Decoder with Atrous Separable Convolution for Semantic Image Segmentation. <http://arxiv.org/abs/1802.02611>
- Cheng, B., Misra, I., Schwing, A. G., Kirillov, A., & Girdhar, R. (2022). Masked-attention Mask Transformer for Universal Image Segmentation. <http://arxiv.org/abs/2112.01527>
- Cubuk, E. D., Zoph, B., Mane, D., Vasudevan, V., & Le, Q. V. (2019). AutoAugment: Learning Augmentation Policies from Data. <http://arxiv.org/abs/1805.09501>
- Cubuk, E. D., Zoph, B., Shlens, J., & Le, Q. V. (2019). RandAugment: Practical automated data augmentation with a reduced search space. <http://arxiv.org/abs/1909.13719>
- Elharrouss, O., Akbari, Y., Almadedd, N., & Al-Maadedd, S. (2024). Backbones-review: Feature extractor networks for deep learning and deep reinforcement learning approaches in computer vision. In *Computer Science Review* (Vol. 53). Elsevier Ireland Ltd. <https://doi.org/10.1016/j.cosrev.2024.100645>
- Everingham, M., Van Gool, L., Williams, C. K. I., Winn, J., & Zisserman, A. (2010). The pascal visual object classes (VOC) challenge. *International Journal of Computer Vision*, 88(2), 303–338. <https://doi.org/10.1007/s11263-009-0275-4>
- Garcia-Garcia, A., Orts-Escolano, S., Oprea, S., Villena-Martinez, V., & Garcia-Rodriguez, J. (2017). A Review on Deep Learning Techniques Applied to Semantic Segmentation. <http://arxiv.org/abs/1704.06857>
- Ghiasi, G., Cui, Y., Srinivas, A., Qian, R., Lin, T.-Y., Cubuk, E. D., Le, Q. V., & Zoph, B. (2021a). Simple Copy-Paste is a Strong Data Augmentation Method for Instance

- Segmentation. <http://arxiv.org/abs/2012.07177>
- Ghiasi, G., Cui, Y., Srinivas, A., Qian, R., Lin, T.-Y., Cubuk, E. D., Le, Q. V., & Zoph, B. (2021b). Simple Copy-Paste is a Strong Data Augmentation Method for Instance Segmentation. <http://arxiv.org/abs/2012.07177>
- Guo, M.-H., Lu, C.-Z., Hou, Q., Liu, Z., Cheng, M.-M., & Hu, S.-M. (2022). SegNeXt: Rethinking Convolutional Attention Design for Semantic Segmentation. <http://arxiv.org/abs/2209.08575>
- Hariharan, B., Arbeláez, P., Girshick, R., & Malik, J. (2014). LNCS 8695 - Simultaneous Detection and Segmentation. <http://www.eecs.berkeley.edu/Research/Projects/CS/vision/shape/sds>.
- Harris, C. R., Millman, K. J., van der Walt, S. J., Gommers, R., Virtanen, P., Cournapeau, D., Wieser, E., Taylor, J., Berg, S., Smith, N. J., Kern, R., Picus, M., Hoyer, S., van Kerkwijk, M. H., Brett, M., Haldane, A., del Río, J. F., Wiebe, M., Peterson, P., ... Oliphant, T. E. (2020). Array programming with NumPy. In *Nature* (Vol. 585, Number 7825, pp. 357–362). Nature Research. <https://doi.org/10.1038/s41586-020-2649-2>
- He, K., Gkioxari, G., Dollár, P., & Girshick, R. (2018). Mask R-CNN. <http://arxiv.org/abs/1703.06870>
- Ho, J., Jain, A., & Abbeel, P. (2020). Denoising Diffusion Probabilistic Models. <http://arxiv.org/abs/2006.11239>
- Ioffe, S., & Szegedy, C. (2015). Batch Normalization: Accelerating Deep Network Training by Reducing Internal Covariate Shift. <http://arxiv.org/abs/1502.03167>
- Joshi, D., Singh, T. P., & Sharma, G. (2022). Automatic surface crack detection using segmentation-based deep-learning approach. *Engineering Fracture Mechanics*, 268. <https://doi.org/10.1016/j.engfracmech.2022.108467>
- Kaplan, J., McCandlish, S., Henighan, T., Brown, T. B., Chess, B., Child, R., Gray, S., Radford, A., Wu, J., & Amodei, D. (2020). Scaling Laws for Neural Language Models. <http://arxiv.org/abs/2001.08361>
- Kombol, N., Martinović, I., & Šegvić, S. (2025). A Survey on Training-free Open-Vocabulary Semantic Segmentation. <http://arxiv.org/abs/2505.22209>
- Liu, X., Li, J., Ma, J., Sun, H., Xu, Z., Zhang, T., & Yu, H. (2023). Deep Transfer Learning for Intelligent Vehicle Perception: a Survey. <http://arxiv.org/abs/2306.15110>
- Long, J., Shelhamer, E., & Darrell, T. (2015). Fully Convolutional Networks for Semantic Segmentation. <http://arxiv.org/abs/1411.4038>
- Ma, Y., & Luo, Y. (2021). Bone fracture detection through the two-stage system of Crack-Sensitive Convolutional Neural Network. *Informatics in Medicine Unlocked*, 22.

<https://doi.org/10.1016/j.imu.2020.100452>

- Minaee, S., Boykov, Y., Porikli, F., Plaza, A., Kehtarnavaz, N., & Terzopoulos, D. (2020). Image Segmentation Using Deep Learning: A Survey. <http://arxiv.org/abs/2001.05566>
- Negassi, M., Wagner, D., & Reiterer, A. (2022). Smart(Sampling)Augment: Optimal and Efficient Data Augmentation for Semantic Segmentation. *Algorithms*, 15(5). <https://doi.org/10.3390/a15050165>
- Nwankpa, C., Ijomah, W., Gachagan, A., & Marshall, S. (2018). Activation Functions: Comparison of trends in Practice and Research for Deep Learning. <http://arxiv.org/abs/1811.03378>
- Padilla, R., Netto, S. L., & Da Silva, E. A. B. (2020). A Survey on Performance Metrics for Object-Detection Algorithms.
- Paszke, A., Gross, S., Massa, F., Lerer, A., Bradbury, J., Chanan, G., Killeen, T., Lin, Z., Gimelshein, N., Antiga, L., Desmaison, A., Köpf, A., Yang, E., DeVito, Z., Raison, M., Tejani, A., Chilamkurthy, S., Steiner, B., Fang, L., ... Chintala, S. (2019). PyTorch: An Imperative Style, High-Performance Deep Learning Library. <http://arxiv.org/abs/1912.01703>
- Perez, L., & Wang, J. (2017). The Effectiveness of Data Augmentation in Image Classification using Deep Learning. <http://arxiv.org/abs/1712.04621>
- Qian, R., Tan, R. T., Yang, W., Su, J., & Liu, J. (2018). Attentive Generative Adversarial Network for Raindrop Removal from a Single Image. <http://arxiv.org/abs/1711.10098>
- Rekavandi, A. M., Rashidi, S., Boussaid, F., Hoefs, S., Akbas, E., & bennamoun, M. (2023). Transformers in Small Object Detection: A Benchmark and Survey of State-of-the-Art. <http://arxiv.org/abs/2309.04902>
- Ronneberger, O., Fischer, P., & Brox, T. (2015). U-Net: Convolutional Networks for Biomedical Image Segmentation. <http://arxiv.org/abs/1505.04597>
- Sakaridis, C., Dai, D., & Van Gool, L. (2019). Semantic Foggy Scene Understanding with Synthetic Data. <https://doi.org/10.1007/s11263-018-1072-8>
- Sandfort, V., Yan, K., Pickhardt, P. J., & Summers, R. M. (2019). Data augmentation using generative adversarial networks (CycleGAN) to improve generalizability in CT segmentation tasks. *Scientific Reports*, 9(1). <https://doi.org/10.1038/s41598-019-52737-x>
- Sgibnev, I., Sorokin, A., Vishnyakov, B., & Vizilter, Y. (2020). Deep Semantic Segmentation for the Off-road Autonomous Driving. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, 43(B2), 617–622. <https://doi.org/10.5194/isprs-archives-XLIII-B2-2020->

- Shorten, C., & Khoshgoftaar, T. M. (2019). A survey on Image Data Augmentation for Deep Learning. *Journal of Big Data*, 6(1). <https://doi.org/10.1186/s40537-019-0197-0>
- Tremblay, J., Prakash, A., Acuna, D., Brophy, M., Jampani, V., Anil, C., To, T., Cameracci, E., Boochoon, S., & Birchfield, S. (2018). Training Deep Networks with Synthetic Data: Bridging the Reality Gap by Domain Randomization. <http://arxiv.org/abs/1804.06516>
- Tremblay, M., Halder, S. S., de Charette, R., & Lalonde, J.-F. (2020). Rain rendering for evaluating and improving robustness to bad weather. <https://doi.org/10.1007/s11263-020-01366-3>
- Wang, Y., Yang, L., Liu, X., & Yan, P. (2024). An improved semantic segmentation algorithm for high-resolution remote sensing images based on DeepLabv3+. *Scientific Reports*, 14(1). <https://doi.org/10.1038/s41598-024-60375-1>
- Xiang, S., Wei, L., & Hu, K. (2024). Lightweight colon polyp segmentation algorithm based on improved DeepLabV3+. *Journal of Cancer*, 15(1), 41–53. <https://doi.org/10.7150/jca.88684>
- Xie, E., Wang, W., Yu, Z., Anandkumar, A., Alvarez, J. M., & Luo, P. (2021). SegFormer: Simple and Efficient Design for Semantic Segmentation with Transformers. <http://arxiv.org/abs/2105.15203>
- Zhang, J., Zhang, Y., & Xu, X. (2021). ObjectAug: Object-level Data Augmentation for Semantic Image Segmentation. <http://arxiv.org/abs/2102.00221>
- Zhang, L., Xing, Z., & Wang, X. (2023). Background Instance-Based Copy-Paste Data Augmentation for Object Detection. *Electronics (Switzerland)*, 12(18). <https://doi.org/10.3390/electronics12183781>
- Zhao, H., Shi, J., Qi, X., Wang, X., & Jia, J. (2017). Pyramid Scene Parsing Network. Retrieved <https://github.com/hszhao/PSPNet>
- Zhu, C., & Chen, L. (2024). A Survey on Open-Vocabulary Detection and Segmentation: Past, Present, and Future. <http://arxiv.org/abs/2307.09220>