

REFERENCES

- [1] G. Howard, M. Zhu, B. Chen, D. Kalenichenko, W. Wang, T. Weyand, M. Andreetto, and H. Adam, "Mobilenets: Efficient convolutional neural networks for mobile vision applications," *arXiv preprint arXiv:1704.04861*, 2017.
- [2] H. Fernando, I. Perera, and C. de Silva, "Real-time human detection and tracking in the infrared video feed" in *2019 Moratuwa Engineering Research Conference (MERCOn)*, 2019, pp. 111-116.
- [3] J. Ge, Y. Luo, and D. Xiao, "Adaptive hysteresis thresholding based pedestrian detection in nighttime using a normal camera," in *IEEE International Conference on Vehicular Electronics and Safety*, 2005, pp. 46-51.
- [4] Riaz, J. Piao, and H. Shin, "Human detection by using centrist features for thermal images," *International Journal on Computer Science and Information Systems*, vol. 8, no. 2, pp. 1–11, 2013.
- [5] N. Dalal and B. Triggs, "Histograms of oriented gradients for human detection," in *Proc. IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, San Diego, CA, USA, 2005, pp. 886-893.
- [6] F. Suard, A. Rakotomamonjy, A. Bensrhair, and A. Broggi, "Pedestrian Detection using Infrared images and Histograms of Oriented Gradients," in *2006 IEEE Intelligent Vehicles Symposium*, Tokyo, 2006, pp. 206-212.
- [7] S. Budzan, "Human Detection in Thermal Images Using Low-level Features," *International Journal on Measurement Automation Monitoring*, 2015, vol. 61, no. 6, pp. 191–194.
- [8] V. Gajjar, A. Gurnani, and Y. Khandhediya, "Human Detection and Tracking for Video Surveillance A Cognitive Science Approach," in *2017 IEEE International Conference on Computer Vision Workshops*, 2017, pp. 2805–2809.
- [9] Y. Khandhediya, K. Sav, and V. Gajjar, "Human Detection for Night Surveillance using Adaptive Background Subtracted Image," *arXiv preprint arXiv:1709.09389*, 2017, pp. 1–5.

- [10] P. Viola and M. Jones, "Rapid object detection using a boosted cascade of simple features," *IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognition*, 2001, pp. 511–518.
- [11] S. Dai, Y. Ming, Ying Wu, and A. Katsaggelos, "Detector Ensemble," in *IEEE Conference on Computer Vision and Pattern Recognition*, Minneapolis, MN, 2007, pp. 1-8.
- [12] Q. Zhu, S. Avidan, M. Yeh, and K. Cheng, "Fast Human Detection Using a Cascade of Histograms of Oriented Gradients," in *2006 IEEE Computer Society Conference on Computer Vision and Pattern Recognition*, New York, NY, USA, 2006, pp. 1491-1498.
- [13] A. Shashua, Y. Gdalyahu, and G. Hayun, "Pedestrian detection for driving assistance systems: single-frame classification and system level performance," in *IEEE Intelligent Vehicles Symposium*, Parma, Italy, 2004, pp. 1-6.
- [14] D. Heo, E. Lee, and B. C. Ko, "Pedestrian Detection at Night Using Deep Neural Networks and Saliency Maps," *Journal of Imaging Science and Technology*, 2017, vol. 61, no. 6, pp. 1–9.
- [15] A. Nazib, C.-M. Oh, and C. W. Lee, "Object detection and tracking in night time video surveillance," in *10th Int. Conf. Ubiquitous Robot. Ambient Intell.*, 2013, pp. 629–632.
- [16] F. X. F. Xu, X. L. X. Liu, and K. Fujimura, "Pedestrian detection and tracking with night vision," *IEEE Trans. Intell. Transp. Syst.*, 2005, vol. 6, no. 1, pp. 63–71.
- [17] J. F. Henriques, R. Caseiro, P. Martins, and J. Batista, "High-speed tracking with kernelized correlation filters," *IEEE Trans. Pattern Anal. Mach. Intell.*, 2014, vol. 37, no. 3, pp. 583–596.
- [18] B. Babenko, M. -H. Yang, and S. Belongie, "Visual tracking with online multiple instance learning," in *Conference on Computer Vision and Pattern Recognition*, Miami, FL, USA, 2009.
- [19] Z. Kalal, K. Mikolajczyk, J. Matas, "Tracking-learning-detection", in *IEEE Transactions Pattern Analysis and Machine Intelligence*, 2011, vol. 34, no. 7, pp. 1409-1422.

- [20] Bhuiyan, A. Perina, and V. Murino, "Exploiting Multiple Detections for Person Re-Identification," *J. Imaging*, 2018, vol. 4, no. 2, pp. 28.
- [21] A. Wu, W.-S. Zheng, H.-X. Yu, S. Gong, and J. Lai, "RGB-Infrared Cross-Modality Person Re-Identification," in *IEEE International Conference on Computer Vision*, Venice, 2017, pp. 5390-5399.
- [22] D. G. Lowe, "Object recognition from local scale-invariant features," in *Proc. of the Seventh IEEE International Conference on Computer Vision*, Kerkyra, Greece, 1999, pp. 1150-1157.
- [23] H. Bay, T. Tuytelaars, and L. Van Gool, "SURF: Speeded up robust features," in *Proc. Ninth European Conference on Computer Vision*, 2006, pp. 404-417.
- [24] Jungling and M. Arens, "Local Feature Based Person Reidentification in Infrared Image Sequences," in *7th IEEE International Conference on Advanced Video and Signal Based Surveillance*, Boston, MA, 2010, pp. 448-455.
- [25] "Tensorflow Object Detection API", 2018. [Online] https://github.com/tensorflow/models/tree/master/research/object_detection. [Accessed: Nov. 12, 2018].
- [26] R. Mazzon, S.F. Tahir, A. Cavallaro, "Person Re-identification Using Spatial Covariance Regions of Human Body Parts," in *7th IEEE International Conference on Advanced Video and Signal Based Surveillance*, Boston, MA, USA, 2010.
- [27] B. Waber, "Bloomberg," 16 May 2013. [Online]. Available: <https://www.bloomberg.com/news/articles/2013-05-16/the-next-big-thing-in-big-data-people-analytics>. [Accessed: 03 June 2017].
- [28] A. Krizhevsky, I. Sutskever, and G. E. Hinton, "ImageNet classification with deep convolutional neural networks," *Advances in Neural Information Processing Systems*, 2012, pp. 1097-1105.
- [29] C. Szegedy, W. Liu, Y. Jia, P. Sermanet, S. Reed, D. Anguelov, D. Erhan, V. Vanhoucke, and A. Rabinovich, "Going deeper with convolutions," in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2015, pp. 1-9.
- [30] K. Simonyan and A. Zisserman, "Very deep convolutional networks for large-scale image recognition," in *ICLR*, 2015.

- [31] K. He, X. Zhang, S. Ren, and J. Sun, "Deep residual learning for image recognition," in *CVPR*, 2016.
- [32] J. Redmon, S. Divvala, R. Girshick, A. Farhadi, "You only look once: Unified, real-time object detection," in *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*, 2016, pp. 779-788.
- [33] R. Girshick, J. Donahue, T. Darrell, and J. Malik, "Region-based convolutional networks for accurate object detection and segmentation," in *IEEE transactions on pattern analysis and machine intelligence*, 2015, vol. 38, no. 1, pp.142-158.
- [34] R. Girshick, "Fast R-CNN," in *Proceedings of the IEEE international conference on computer vision*, 2015, pp. 1440-1448.
- [35] S. Ren, K. He, R. Girshick, and J. Sun, "Faster R-CNN: Towards real-time object detection with region proposal networks," in *Advances in neural information processing systems*, 2015, pp. 91-99.
- [36] W. Liu, D. Anguelov, D. Erhan, C. Szegedy, S. Reed, C. -Y. Fu, and A. C. Berg, "Ssd: Single shot multibox detector," in *European conference on computer vision*. Springer, Cham, 2016, pp. 21–37.
- [37] "VISIBLE VS. THERMAL DETECTION: ADVANTAGES AND DISADVANTAGES," 09 September. [Online]. Available: <https://www.lynnred.com/blog/visible-vs-thermal-detection-advantages-and-disadvantages>. [Accessed: 03 November 2021].
- [38] T.-Y. Lin et al., "Microsoft COCO: Common Objects in Context", arXiv [cs.CV]. 2015.
- [39] Language and Media Processing Laboratory. Viper: The video performance evaluation resource. <http://viper-toolkit.sourceforge.net>, November 2011.
- [40] H. O. S. D. Branch, "Imagery library for intelligent detection systems (i-lids)", in 2006 IET conference on crime and security, 2006, pp. 445–448.
- [41] M. Hirzer, C. Beleznai, P. M. Roth, en H. Bischof, "Person Re-Identification by Descriptive and Discriminative Classification", in Proc. Scandinavian Conference on Image Analysis (SCIA), 2011.

- [42] E. Maggiori, Y. Tarabalka, G. Charpiat, en P. Alliez, “Can Semantic Labeling Methods Generalize to Any City? The Inria Aerial Image Labeling Benchmark”, in IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 2017.
- [43] Simon Lynen, J.P. ETHZ Thermal Infrared Dataset. 2014. Available online: <http://projects.asl.ethz.ch/datasets/doku.php?id=ir:iricra2014> (accessed on 11 June 2020).
- [44] M. Jeong, B. C. Ko, and J. Y. Nam, “Early detection of sudden pedestrian crossing for safe driving during summer nights,” IEEE Trans. Circuits. Syst. Video Technol. 27, 2017, pp. 1368–1380.
- [45] Zheng Wu, Nathan Fuller, Diane Theriault, Margrit Betke, "A Thermal Infrared Video Benchmark for Visual Analysis", in Proceeding of 10th IEEE Workshop on Perception Beyond the Visible Spectrum (PBVS), Columbus, Ohio, USA, 2014.
- [46] Y. Choi, N. Kim, S. Hwang, K. Park, J. S. Yoon, K. An, and I. S. Kweon, “KAIST multi-spectral Day/Night data set for autonomous and assisted driving,” IEEE Trans. Intell. Transp. Syst., vol. 19, no. 3, Mar. 2018, pp. 934–948.
- [47] Bilodeau, G.-A., Torabi, A., St-Charles, P.-L., Riahi, D., Thermal-Visible Registration of Human Silhouettes: a Similarity Measure Performance Evaluation, Infrared Physics & Technology, Vol. 64, May 2014, pp. 79-86.
- [48] Z. Imani, H. Soltanizadeh, en A. A. Orouji, “Short-term person re-identification using rgb, depth and skeleton information of rgb-d sensors”, Iranian Journal of Science and Technology, Transactions of Electrical Engineering, vol 44, no 2, 2020, pp. 669–681.
- [49] P. Zhang, Q. Wu, J. Xu, en J. Zhang, “Long-term person re-identification using true motion from videos”, in 2018 IEEE Winter Conference on Applications of Computer Vision (WACV), 2018, pp. 494–502.

- [50] A. Bedagkar-Gala en S. K. Shah, “A survey of approaches and trends in person re-identification”, *Image and vision computing*, vol 32, no 4, 2014, pp. 270–286.
- [51] B. Yassine, G. Larbi, en L. Hicham, “Human detection in surveillance videos using MobileNet”, in *2020 2nd International Conference on Computer and Information Sciences (ICCIS)*, 2020, pp. 1–5.