

## REFERENCES

- [1] L. A. B. E. T. L. Schrank David, “URBAN MOBILITY REPORT,” 2021.
- [2] P. Næss, “Achieving sustainable mobility. Everyday and leisure-time travel in the EU,” *Journal of Environmental Planning and Management*, vol. 51, no. 3, pp. 471–472, May 2008, doi: 10.1080/09640560801979741.
- [3] Volvo Trucks Accident Research Team, “Volvo Trucks Accident Research Team,” 2013.
- [4] E. Kim, P. Muennig, and Z. Rosen, “Vision zero: a toolkit for road safety in the modern era,” *Inj Epidemiol*, vol. 4, no. 1, p. 1, Dec. 2017, doi: 10.1186/s40621-016-0098-z.
- [5] S.-J. Babak, S. A. Hussain, B. Karakas, and S. Cetin, “Control of autonomous ground vehicles: a brief technical review,” *IOP Conf Ser Mater Sci Eng*, vol. 224, p. 012029, Jul. 2017, doi: 10.1088/1757-899X/224/1/012029.
- [6] K. Bengler, K. Dietmayer, B. Färber, M. Maurer, C. Stiller, and H. Winner, “Three Decades of Driver Assistance Systems Review and Future Perspectives,” 2014.
- [7] “Ford Active City Stop,” *EURO NCAP*.  
<https://preview.thenewsmarket.com/Previews/NCAP/DocumentAssets/206203.pdf> (accessed Jul. 11, 2023).
- [8] M. Distner, M. Bengtsson, T. Broberg, and L. Jakobsson, “CITY SAFETY-A SYSTEM ADDRESSING REAR-END COLLISIONS AT LOW SPEEDS.”
- [9] J. Horgan, C. Hughes, J. McDonald, and S. Yogamani, “Vision-based Driver Assistance Systems: Survey, Taxonomy and Advances.”
- [10] R. Szeliski, “Computer Vision: Algorithms and Applications 2nd Edition,” 2021. [Online]. Available: <https://szeliski.org/Book>,
- [11] A. Bar Hillel, R. Lerner, D. Levi, and G. Raz, “Recent progress in road and lane detection: a survey,” *Mach Vis Appl*, vol. 25, no. 3, pp. 727–745, Apr. 2014, doi: 10.1007/s00138-011-0404-2.

- [12] J. L. Schonberger and J.-M. Frahm, “Structure-from-Motion Revisited,” in *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, IEEE, Jun. 2016, pp. 4104–4113. doi: 10.1109/CVPR.2016.445.
- [13] C. Harris and M. Stephens, “A Combined Corner and Edge Detector,” in *Proceedings of the Alvey Vision Conference 1988*, Alvey Vision Club, 1988, pp. 23.1-23.6. doi: 10.5244/C.2.23.
- [14] S. Oron, A. Bar-Hillel, and S. Avidan, “Extended Lucas-Kanade Tracking,” 2014, pp. 142–156. doi: 10.1007/978-3-319-10602-1\_10.
- [15] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, “You Only Look Once: Unified, Real-Time Object Detection,” Jun. 2015.
- [16] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, “You Only Look Once: Unified, Real-Time Object Detection,” Jun. 2015, [Online]. Available: <http://arxiv.org/abs/1506.02640>
- [17] J. Redmon and A. Farhadi, “YOLO9000: Better, Faster, Stronger,” Dec. 2016.
- [18] J. Redmon and A. Farhadi, “YOLOv3: An Incremental Improvement,” Apr. 2018.
- [19] A. Bochkovskiy, C.-Y. Wang, and H.-Y. M. Liao, “YOLOv4: Optimal Speed and Accuracy of Object Detection,” Apr. 2020.
- [20] “YOLO V5.” <https://github.com/ultralytics/yolov5> (accessed Jul. 11, 2023).
- [21] C.-Y. Wang, A. Bochkovskiy, and H.-Y. M. Liao, “YOLOv7: Trainable bag-of-freebies sets new state-of-the-art for real-time object detectors,” Jul. 2022.
- [22] P. Adarsh, P. Rathi, and M. Kumar, “YOLO v3-Tiny: Object Detection and Recognition using one stage improved model,” in *2020 6th International Conference on Advanced Computing and Communication Systems (ICACCS)*, IEEE, Mar. 2020, pp. 687–694. doi: 10.1109/ICACCS48705.2020.9074315.
- [23] P. Jiang, D. Ergu, F. Liu, Y. Cai, and B. Ma, “A Review of Yolo Algorithm Developments,” in *Procedia Computer Science*, Elsevier B.V., 2021, pp. 1066–1073. doi: 10.1016/j.procs.2022.01.135.

- [24] A. Mousavian, D. Anguelov, J. Flynn, and J. Kosecka, “3D Bounding Box Estimation Using Deep Learning and Geometry,” Dec. 2016.
- [25] V. Lepetit, F. Moreno-Noguer, and P. Fua, “EPnP: An Accurate  $O(n)$  Solution to the PnP Problem,” *Int J Comput Vis*, vol. 81, no. 2, pp. 155–166, Feb. 2009, doi: 10.1007/s11263-008-0152-6.
- [26] F. Rothganger, S. Lazebnik, C. Schmid, and J. Ponce, “3D Object Modeling and Recognition Using Local Affine-Invariant Image Descriptors and Multi-View Spatial Constraints,” *Int J Comput Vis*, vol. 66, no. 3, pp. 231–259, Mar. 2006, doi: 10.1007/s11263-005-3674-1.
- [27] Z. Cai, Q. Fan, R. S. Feris, and N. Vasconcelos, “A Unified Multi-scale Deep Convolutional Neural Network for Fast Object Detection,” Jul. 2016.
- [28] A. Bewley, Z. Ge, L. Ott, F. Ramos, and B. Upcroft, “Simple online and realtime tracking,” in *2016 IEEE International Conference on Image Processing (ICIP)*, IEEE, Sep. 2016, pp. 3464–3468. doi: 10.1109/ICIP.2016.7533003.
- [29] A. Gordon, H. Li, R. Jonschkowski, and A. Angelova, “Depth from Videos in the Wild: Unsupervised Monocular Depth Learning from Unknown Cameras,” Apr. 2019.
- [30] M. Rob, “Study measures how fast humans react to road hazards,” Aug. 07, 2019. <https://news.mit.edu/2019/how-fast-humans-react-car-hazards-0807> (accessed Jul. 11, 2023).
- [31] N. Venkateswaran, W. J. Hans, and N. Padmapriya, “Deep learning based robust forward collision warning system with range prediction,” *Multimed Tools Appl*, vol. 80, no. 14, pp. 20849–20867, Jun. 2021, doi: 10.1007/s11042-021-10703-8.
- [32] S. Valladares, M. Toscano, R. Tufiño, P. Morillo, and D. Vallejo-Huanga, “Performance Evaluation of the Nvidia Jetson Nano Through a Real-Time Machine Learning Application,” 2021, pp. 343–349. doi: 10.1007/978-3-030-68017-6\_51.