













- against COVID-19", PNAS 2021 Vol. 118 No. 4 e2014564118. <https://doi.org/10.1073/pnas.2014564118>
- [5] Bogue R. Robots in a contagious world. *Ind Rob* 2020;47:642–73. <https://doi.org/10.1108/IR-05-2020-0101>.
- [6] Yang G-Z, Nelson BJ, Murphy RR, Choset H, Christensen H, Collins SH, et al. Combating COVID-19-The role of robotics in managing public health and infectious diseases. *Sci Robot* 2020;5. <https://doi.org/10.1126/scirobotics.abb5589>.
- [7] Khaleghi A, Mohammadi MR, Jahromi GP, Zarafshan H. New ways to manage pandemics: using technologies in the era of COVID-19, a narrative review. *Iran J Psychiatry* 2020;15:236–42.
- [8] Sharma D, Nawab AZB, Alam M. Integrating M-Health with IoMT to counter COVID-19. *Stud Comput Intell* 2021;923:373–96. [https://doi.org/10.1007/978-981-15-8534-0\\_20](https://doi.org/10.1007/978-981-15-8534-0_20).
- [9] Khan ZH, Siddique A, Lee CW. Robotics utilization for healthcare digitization in global COVID-19 management. *Int J Environ Res Public Health* 2020;17. <https://doi.org/10.3390/ijerph17113819>.
- [10] Omar, N., Abdulazeez. A.M., Sengur, A., Al-Ali, S.G.S. (2020). Fused faster RCNNs for efficient detection of the license plates. In *Indonesian Journal of Electrical Engineering and Computer Science (IJECS)* Vol. 19, No. 2, August 2020, pp. 974–982.
- [11] Sowmya, V., Radha, R. (2021). Heavy-Vehicle Detection Based on YOLOv4 featuring Data Augmentation and Transfer-Learning Techniques. *J. Phys.: Conf. Ser.* 1911 012029.
- [12] Yohannes, E., Shih, T.K., Lin, C.Y., Enkhbat, A., Hong, C.Y., Utamingrum, F. (2021). Domain Adaptation Deep Attention Network for Automatic Logo Detection and Recognition in Google Street View. *IEEE Access*, 10.1109/ACCESS.2021.3098713.
- [13] Y.L.X, Wang, Z. Maio, W.C, Tan. Data Augmentation for ML-driven Data Preparation and Integration. *VLDB Endowment*, Vol. 14, No. 12 ISSN 2150-8097. doi:10.14778/3476311.3476403
- [14] Roboflow, 2021. Roboflow Annotate. [online] Available at: <https://roboflow.com/annotate>.
- [15] Tzutalin. LabelImg. Git code (2015). [online] Available at: <https://github.com/tzutalin/labelImg>.
- [16] Jiang, Z., Zhao, L., Li, S., Jia, Y., 2020. Real-time object detection method based on improved YOLOv4-tiny.
- [17] D. Misra. (2020). Mish: A Self Regularized Non-Monotonic Activation Function. arXiv:1908.08681v3.
- [18] J., Nasir, A.A. Ramli, Michael. (2019). Design of Door Security System Based on Face Recognition with Arduino. *JOIV* Vol.3, No. 2 e-ISSN : 2549-9904, ISSN : 2549-9610.
- [19] All About Circuits. Ohm's Law - How Voltage, Current, and Resistance Relate. [online] Available at: <https://www.allaboutcircuits.com/textbook/direct-current/chpt-2/voltage-current-resistance-relate>.
- [20] Digikey. Battery Life Calculator. [online] Available at: <https://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-battery-life>.
- [21] H.N.M. Shah, M.Z.A. Rashid, Z. Kamis, M.S.N. Aras, N.M. Ali, F. Wasbari, M.N.F.B.A. Bakar. (2018). Design and Develop an Autonomous UAV Airship for Indoor Surveillance and Monitoring Applications. *JOIV* Vol.2, No. 1, e-ISSN : 2549-9904, ISSN : 2549-9610.
- [22] A.A. Fauzi, F. Utamingrum, F. Ramdani. (2020). Road surface classification based on LBP and GLCM features using kNN classifier. *Bulletin of Electrical Engineering and Informatics*, Vol. 9, No. 4, pp. 1446–1453