DAFTAR PUSTAKA

[1]   E. Catriana, "Seberapa Penting Penggunaan Robot dalam Industri Keungan di Indonesia?," *Kompas Media*, 2020. https://money.kompas.com/read/2020/12/03/130032926/seberapa-penting-penggunaan-robot-dalam-industri-keuangan-di-indonesia.

[2]   M. Indonesia, "Teknologi Robot Makin Dibutuhkan Industri Saat Pandemi," *PT CITRA MEDIANUSA PURNAMA*, 2021. https://mediaindonesia.com/teknologi/387058/teknologi-robot-makin-dibutuhkan-industri-saat-pandemi.

[3]   G. Du, S. Long, F. Li, and X. Huang, "Active collision avoidance for human-robot interaction with UKF, expert system, and artificial potential field method," *Front. Robot. AI*, vol. 5, no. NOV, pp. 1–11, 2018, doi: 10.3389/frobt.2018.00125.

[4]   M. Z. Romdlony and B. Jayawardhana, "Stabilization with guaranteed safety using Control Lyapunov-Barrier FunctionRomdlony, M. Z., & Jayawardhana, B. (2016). Stabilization with guaranteed safety using Control Lyapunov-Barrier Function. Automatica, 66, 39–47. https://doi.org/10.1016/j.automati," *Automatica*, vol. 66, pp. 39–47, 2016, doi: 10.1016/j.automatica.2015.12.011.

[5]   S. Kimura, H. Nakamura, and Y. Yamashita, "Control of two-wheeled mobile robot via homogeneous semiconcave control Lyapunov function," *IFAC Proc. Vol.*, vol. 9, no. PART 1, pp. 92–97, 2013, doi: 10.3182/20130904-3-FR-2041.00098.

[6]   M. Igarashi and H. Nakamura, "Collision avoidance assist control for two-wheel vehicle robots by control barrier function," *2018 Int. Autom. Control Conf. CACS 2018*, no. 5, pp. 1–6, 2019, doi: 10.1109/CACS.2018.8606761.

[7]   S. Prajna and A. Jadbabaie, "Safety Verification of Interconnected Hybrid Systems Using Barrier Certificates," *Math. Probl. Eng.*, vol. 2004, 2004, doi: 10.1155/2016/4149059.

[8]   P. Wieland and F. Allgöwer, "Constructive safety using control barrier functions," *IFAC Proc. Vol.*, vol. 7, no. PART 1, pp. 462–467, 2007, doi: 10.3182/20070822-3-za-2920.00076.

[9]   D. Suwandi and A. Qurthobi, "Perancangan Dan Implementasi Sistem Obstacle Avoidance Pada Mobile Robot Beroda Berbasis Kendali Proportional (Scheme and Implementation of Obstacle Avoidance System in Wheeled Mobile Robot Proportional Control Based)," vol. 2, no. 1, pp. 571–578, 2015.

[10]   Y. Li, "Kinematic Modeling of a Combined System of Mecanum Mobile Robot," *Sensors Artic.*, no. 1, 2019.

[11]   I. Doroftei, V. Grosu, and V. Spinu, "Design and control of an omni-directional mobile robot," *Nov. Algorithms Tech. Telecommun. Autom. Ind. Electron.*, pp. 105–110, 2008, doi: 10.1007/978-1-4020-8737-0_19.

[12]   R. I. S. and H. Hartono, "Rancang Bangun Pulse Width Modulation (PWM) Sebagai Pengatur Kecepatan Motor DC Berbasis Mikrokontroler Arduino," *J. Penelit.*, vol. 3, no. 1, pp. 50–58, 2018, doi: 10.46491/jp.v3e1.31.50-58.

[13]   Andalan Elektro, "Skema Dan Prinsip Kerja Rangkaian PWM menggunakan IC 555," *andalanelektro.id*, 2019. https://www.andalanelektro.id/2019/11/skema-dan-prinsip-kerja-rangkaian-pwm-menggunakan-ic-555.html.

[14]   Technology Robotix Society, "Blob Detection," *Medium*, 2019. https://medium.com/image-processing-in-robotics/blob-detection-309226a3ea5b.

[15]   R. Burns, "Advanced Control Engineering," *Adv. Control Eng.*, 2001, doi: 10.1016/b978-0-7506-5100-4.x5000-1.

[16]   A. Kadir, *From Zero to a Pro: Arduino*, Revisi. Yogyakarta: Penerbit ANDI, 2015.

[17]   Pololu, "Arduino Mega 2560 R3." https://www.pololu.com/product/1699.

[18] A. Suprayogi, H. Fitriyah, and Tibyani, "Sistem Pendeteksi Kecelakaan Pada Sepeda Motor Berdasarkan Kemiringan Menggunakan Sensor Gyroscope Berbasis Arduino," *Sist. Pendeteksi Kecelakaan Pada Sepeda Mot. Berdasarkan Kemiringan Menggunakan Sens. Gyroscope Berbas. Arduino*, vol. 3, no. 3, pp. 3079–3085, 2019.

[19] F. E. CO., "Bluetooth module HC05," *J. Spacecr. Rockets*, pp. 1–3, 2015, [Online]. Available: https://core-electronics.com.au/bluetooth-module-hc-05.html.

[20] Voltspace, "L298 Motor Driver." https://voltspace.in/product/l298-motor-driver/.

[21] A. M. T. I. Alnaib, "DC Motors," no. May, 2019.

[22] Tokopedia, "Motor CHIHAI MOTOR DC12V 350rpm Encoder Motor DC Gear." https://www.tokopedia.com/qoejualin/motor-chihai-motor-dc12v-350rpm-encoder-motor-dc-gear-motor-with.

[23] B. Nugraha, "Definisi dan Cara Kerja Roda Mekanum," *www.pugam.com*, 2017. https://www.pugam.com/9088/apa-itu-roda-mecanum-dan-bagaimana-cara-kerjanya/.

[24] Student Robotics, "Batteries and Charging." https://www.studentrobotics.org/docs/kit/batteries/.

[25] Logitech, "Logitech C930e." https://www.logitech.com/id-id/product/c930e-webcam.

[26] E. W. Terr, David and Weisstein, "Positive Definite Quadratic Form," *Mathworld.wolfram.com*, 2021. https://mathworld.wolfram.com/PositiveDefiniteQuadraticForm.html.