

DAFTAR PUSTAKA

- [1] A. R. Hakim, Sumardi, and M. A. Riyadi, "Kontrol Posisi Pada Sistem Pergerakan Mobile Robot Roda Mekanum Menggunakan Kontrol PID Berbasis Invers Kinematic," *Jurnal Transient*, vol. 4, no. 3, pp. 463–470, 2015.
- [2] Muliady and G. Arisandy, "Implementasi Sistem Gerak Holonomic Pada Robot KRSBI Beroda 2017," *Jurnal Teknik dan Ilmu Komputer*, vol. 07, no. 25, pp. 9–25, 2018.
- [3] I. Taufiqurrahman, A. U. Rahayu, M. Y. Permana, and R. Ramdani, "Desain Kendali Kecepatan Motor DC Pada Mobile Robot mekanum Wheels," *Electronica and Electrical Journal of Innovation Technology*, vol. 05, no. 2, pp. 45–52, Dec. 2024.
- [4] A. Amir, M. Basri, M. Supardi, and M. Sukardi, "Sistem Kendali Pergerakan Robot Omni-Wheel," *Prosiding Seminar Nasional Teknik Elektro dan Informatika (SNTEI) 2023 - Teknik Elektronika*, pp. 157–161, 2023.
- [5] B. I. Adamov, "Geometry and Kinematics of the mekanum Wheel on a Plane and a Sphere." *Russian Journal of Nonlinear Dynamics*, 20(1), 2024, 43–78.

- [6] A. Gferrer, "Geometry and kinematics of the mekanum wheel," *Comput. Aided Geom. Des.*, vol. 25, pp. 784–791, 2008.
- [7] N. Tlale and M. de Villiers, "Kinematics and dynamics modelling of a mekanum wheeled mobile platform," in *Proc. Council for Scientific and Industrial Research*, Pretoria, South Africa, 2008.
- [8] F. Becker, O. Bondarev, I. Zeidis, K. Zimmermann, M. Abdelrahman, and B. Adamov, "An approach to the kinematics and dynamics of a four-wheel mekanum vehicle," *Sci. J. IFToMM "Problems of Mechanics"*, no. 2(55), 2014.
- [9] Y. Li, S. Dai, L. Zhao, X. Yan, and Y. Shi, "Topological design methods for mekanum wheel configurations of an omnidirectional mobile robot," *Symmetry*, vol. 11, no. 1268, 2019.
- [10] G. V. Pankrateva, A. E. Mordin, and G. R. Saypulaev, "Analysis of positioning accuracy in case of design errors in the installation of mekanum wheels of the mobile platform," *Adv. Eng. Res. (Rostov-on-Don)*, vol. 23, no. 4, pp. 356–364, 2023.
- [11] M. J. A. Safar, "Holonomic and Omnidirectional Locomotion Systems for Wheeled Mobile Robots: A Review," *Jurnal Teknologi*, vol. 77, no. 28, pp. 91-97, 2015.
- [12] B. E. Ilon, "Wheels for a Course Stable Self-Propelling Vehicle Movable in Any Desired Direction on the Ground or Some Other Base," U.S. Patent 3,876,255, Apr. 8, 1975.

- [13] G. Chandrasekar, Gokul J, K. Kaviyarasan, and S. Rajasekar, "Mecanum Wheel Robot," *International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)*, vol. 12, no. 1, Dec. 2021.
- [14] F. M. Eccles, *An Introduction to Transformational Geometry*, Andover, MA: Phillips Academy, 1971.
- [15] J. Vince, *Geometric Algebra for Computer Graphics*. Springer-Verlag London, 2008.
- [16] D. Halliday and R. Resnick, *Fisika*, edisi ke-3, jilid 1. Jakarta: Erlangga, 1985.
- [17] R. G. Bartle and D. R. Sherbert, *Introduction to Real Analysis*, 4th ed. Hoboken, NJ: Wiley, 2011.
- [18] J. Stewart, *Kalkulus*, edisi ke-4, jilid 2. Jakarta: Erlangga, 2003.
- [19] R.L. Graham, B.D. Lubachevsky, K.J. Nurmela, and P.R.J. Östergård, "Dense packings of congruent circles in a circle," *Discrete Mathematics*, vol. 181, no. 1–3, pp. 139–154, 1998.

