

DAFTAR PUSTAKA

- Devanshu, A. and Meena, D.C. (2017) *Proceedings of the International Conference on Inventive Systems and Control (ICISC 2017) : 19-20 January 2017*. IEEE.
- Eltayeb, A., Ahmed, G., Imran, I.H., Alyazidi, N.M. and Abubaker, A. (2024) 'Comparative analysis: Fractional PID vs. PID controllers for robotic arm using genetic algorithm optimization', *Automation*, 5(3), pp. 230–245.
- Ghaleb, N.M. and Aly, A.A. (2018) 'Modeling and control of 2-DOF robot arm', *International Journal of Emerging Engineering Research and Technology*, 6(11), pp. 24–31.
- Joseph, S.B., Dada, E.G., Abidemi, A., Oyewola, D.O. and Khammas, B.M. (2022) 'Metaheuristic algorithms for PID controller parameters tuning: Review, approaches and open problems', *Heliyon*, 8(5).
- Katoch, S., Chauhan, S.S. and Kumar, V. (2021) 'A review on genetic algorithm: past, present, and future', *Multimedia Tools and Applications*, 80, pp. 8091–8126.
- Kucuk, S. and Bingul, Z. (2006) 'Robot kinematics: Forward and inverse kinematics', in *Industrial Robotics: Theory, Modelling and Control*. London: IntechOpen, pp. 117–148.
- Lambora, A., Gupta, K. and Chopra, K. (2019) 'Genetic algorithm – A literature review', ixalam *2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COMITCon)*. Faridabad, India, 14–16 February. IEEE, pp. 380–384.
- Meng, H., Zhang, S., Zhang, W. and Ren, Y. (2024) 'Optimizing actual PID control for walking quadruped soft robots using genetic algorithms', *Scientific Reports*, 14(1), p. 25946.
- Nasrul Hamid, A.M. (2021) 'Penalaan Parameter PID dengan Metode Ziegler-Nichols untuk Optimasi Kontrol Kecepatan Motor pada Alat Spin Coater', ixalam *Prosiding Seminar Nasional Teknik Elektro dan Informatika*. Pp. 2–3.
- Nise, N.S. (2020) *Control systems engineering*. 7th edn. Hoboken, NJ: John Wiley & Sons.
- Rojas, J.D., Arrieta, O. and Vilanova, R. (2021) *Industrial PID controller tuning*. Cham: Springer International Publishing.

Son, V.N., Van Cuong, P., Minh, N.D. and Nha, P.H. (2025) ‘Optimize the parameters of the PID Controller using Genetic Algorithm for Robot Manipulators’, *arXiv preprint arXiv:2501.04759*.

Sim, D.J., Cho, D.H., Chun, J.S., Jung, H.K. and Chung, T.K. (1997) ‘Efficiency optimization of interior permanent magnet synchronous motor using genetic algorithms’, xalam *IEEE Transactions on Magnetics*, 33(2), pp. 1880–1883.

Van Cuong, P. and Nan, W.Y. (2016) ‘Adaptive trajectory tracking neural network control with robust compensator for robot manipulators’, *Neural Computing and Applications*, 27, pp. 525–536.

Yiyang, L., Xi, J., Hongfei, B., Zhining, W. and Liangliang, S. (2021) ‘A general robot inverse kinematics solution method based on improved PSO algorithm’, *IEEE Access*, 9, pp. 32341–32350.