

DAFTAR PUSTAKA

- Ackerman, E. (2013, March 26). TurtleBot Inventors Tell Us Everything About the Robot. Retrieved May 6, 2021, from <https://spectrum.ieee.org/automaton/robotics/diy/interview-turtlebot-inventors-tell-us-everything-about-the-robot>
- Amsters, R., & Slaets, P. (2020). Turtlebot 3 as a robotics education platform. *Advances in Intelligent Systems and Computing*, 1023, 170–181. https://doi.org/10.1007/978-3-030-26945-6_16
- Antoska-Knights, V., Gacovski, Z., & Deskovski, S. (2017). Obstacles avoidance algorithm for mobile robots, using the potential fields method. *Universal Journal of Electrical and Electronic Engineering*, 5(4), 75–84. <https://doi.org/10.13189/ujeee.2017.050402>
- Arifin, A. Z. (2012). Simulasi Pengendalian Gerak Robot Mobil Tracking Control Berbasis Proportional Derivative. *Teknik POMITS*, 1(1), 1–6.
- Arsada, B. (2017). Aplikasi Sensor Ultrasonik Untuk Deteksi Posisi Jarak Pada Ruang Menggunakan Arduino Uno. *Jurnal Teknik Elektro*, 6(2), 1–8.
- Buschle, G. S., Enevoldsen, T. T., & Hussain, A. (2015). *Mapping and navigation of unknown terrain*.
- Casino, A. A., Sempere, M. Á., Supervisor, V., Ericson, S., & Adamson, G. (n.d.). *AUTONOMOUS MEDICAL ROBOT Bachelor's Degree Project in Production Engineering G2E, 30 credits Spring Term 2020*.
- Catarina Advisor, S., & Roberto Petry, M. (2019). *Comparison and benchmarking for SLAM in mobile robots*.
- Chen, Y., Tang, J., Jiang, C., Zhu, L., Lehtomäki, M., Kaartinen, H., Kaijaluo, R., Wang, Y., Hyypä, J., Hyypä, H., Zhou, H., Pei, L., & Chen, R. (2018). The accuracy comparison of three simultaneous localization and mapping (SLAM)-based indoor mapping technologies. *Sensors (Switzerland)*, 18(10). <https://doi.org/10.3390/s18103228>
- Chen, Y. Y., Chen, Y. H., & Huang, C. Y. (2018). Wheeled mobile robot design with robustness properties. *Advances in Mechanical Engineering*, 10(1), 1–11. <https://doi.org/10.1177/1687814017745253>
- Chiaberge Marcello. (2018). *POLITECNICO DI TORINO Obstacle Avoidance Algorithms for Autonomous Navigation system in Unstructured Indoor areas*.
- Dijkstra, E. W. (1959). A Note on Two Problems in Connexion with Graph. *Numerische Mathematik*, 1(1), 169–271. <https://doi.org/10.1007/BF01386390>
- Dr. Riza Muhida. 2008. "Pemograman Praktis Mikrokontroler Menggunakan PIC untuk Aplikasi Robot". Malaysia : Universitas Malaysia.

- Elkilany, B. G., Abouelsoud, A. A., Fathelbab, A. M. R., & Ishii, H. (2020). Potential field method parameters tuning using fuzzy inference system for adaptive formation control of multi-mobile robots. *Robotics*, 9(1). <https://doi.org/10.3390/robotics9010010>
- Erlangga, D., D, E., H S, R., Sunarto, S., Rahardjo T.S, K., & G, F. (2019). Sistem Navigasi Mobile Robot Dalam Ruangan Berbasis Autonomous Navigation. *Journal of Mechanical Engineering and Mechatronics*, 4(2), 78. <https://doi.org/10.33021/jmem.v4i2.823>
- Harik, E. H. C., & Korsaeath, A. (2018). Combining hector SLAM and artificial potential field for autonomous navigation inside a greenhouse. *Robotics*, 7(2). <https://doi.org/10.3390/robotics7020022>
- Hart, P. E., Nilsson, N. J., & Raphael, B. (1968). A Formal Basis for the Heuristic Determination of Minimum Cost Paths. *IEEE*, 4(2), 100–107. <https://doi.org/10.1109/TSSC.1968.300136>
- Hendriyawan Achmad, M., Nuryadi, S., Fadlun, W., Razali Daud, M., Pahang, M., & Ringroad Utara Jombor Sendangadi Mlati Kabupaten Sleman, J. (2018). ROS-based 2-D Mapping Using Non-holonomic Differential Mobile Robot. *Jurnal Infotel*, 10(2), 75–82. <https://doi.org/10.20895/infotel.v10i2.369>
- Ibrahim, F., Abouelsoud, A. A., Fath Elbab, A. M. R., & Ogata, T. (2019). Path following algorithm for skid-steering mobile robot based on adaptive discontinuous posture control. *Advanced Robotics*, 33(9), 439–453. <https://doi.org/10.1080/01691864.2019.1597764>
- Kaivo-oja, J., Roth, S., & Westerlund, L. (n.d.). *Futures of robotics. Human work in digital transformation*. 30.
- Khaili, M. E. (2014). Path Planning in a Dynamic Environment. *International Journal of Advanced Computer Science and Applications*, 5(8), 7.
- Kothandaraman, K. (2016). *Motion Planning and Control of Differential Drive Robot Repository Citation*. https://corescholar.libraries.wright.edu/etd_all
- Kumar, N., & Vámosy, Z. (2019). Robot navigation in unknown environment with obstacle recognition using laser sensor. *International Journal of Electrical and Computer Engineering*, 9(3), 1773–1779. <https://doi.org/10.11591/ijece.v9i3.pp1773-1779>
- LaValle, S. M. (1998). *Rapidly-Exploring Random Trees: A New Tool for Path Planning*.
- Lin, H. H., & Tsai, C. C. (2008). Laser pose estimation and tracking using fuzzy extended information filtering for an autonomous mobile robot. *Journal of Intelligent and Robotic Systems: Theory and Applications*, 53(2), 119–143. <https://doi.org/10.1007/s10846-008-9234-5>
- Marta, B. S., Ardilla, F., & Besari, A. R. A. (2011). PATH TRACKING PADA MOBILE ROBOT DENGAN UMPAN BALIK ODOMETRY. *Proceedings of IES 2011 – Emerging Technology For Better Human Life*, 2, 7.
- Morais, C., Nascimento, T., Brito, A., & Basso, G. (2017). A 3D anti-collision system based on artificial potential field method for a mobile robot. *ICAART 2017 - Proceedings of*

the 9th International Conference on Agents and Artificial Intelligence, 1(March), 308–313. <https://doi.org/10.5220/0006245303080313>

Morgan Quigley, Brian Gerkey, W. D. S. (2015). *Robots with ROS*.

Park, M. G. (2003). *Artificial Potential Field Based Robots Using a Virtual*.

Petrella, R., Tursini, M., Peretti, L., & Zigliotto, M. (2007). Speed measurement algorithms for low-resolution incremental encoder equipped drives: A comparative analysis. *International Aegean Conference on Electrical Machines and Power Electronics and Electromotion ACEMP'07 and Electromotion'07 Joint Conference, May 2014*, 780–787. <https://doi.org/10.1109/ACEMP.2007.4510607>

Prastyawan, A. W., Harianto, H., & Puspasari, I. (2017). Kendali Pergerakan Robot Sepak Bola Dengan Pid Kontrol. *Journal of Control and Network Systems*, 6(1), 73–86.

Rahman, A. (2020). Penerapan SLAM Gmapping dengan Robot Operating System Menggunakan Laser Scanner pada Turtlebot. *Jurnal Rekayasa Elektrika*, 16(2). <https://doi.org/10.17529/jre.v16i2.16491>

Rao, V. M. V. (2013). *Performance Analysis Of Speed Control Of Dc Motor Using P, PI, PD And PID Controllers*. 2(5), 60–66.

Rubio, F., Valero, F., & Llopis-Albert, C. (2019). A review of mobile robots: Concepts, methods, theoretical framework, and applications. *International Journal of Advanced Robotic Systems*, 16(2), 1–22. <https://doi.org/10.1177/1729881419839596>

Samudra, F. B., Ardilla, F., Program, M., Teknik, S., Program, D., & Teknik, S. (1992). *Pengendalian Robot Soccer Dalam Mengambil Bola. 1*, 1–6.

Sasi Kumar, G., & Ravikumar, L. (2011). *Path Planning Algorithms: A comparative study*. <https://www.researchgate.net/publication/320774676>

Stentz, A. (1995). The Focussed D* Algorithm for Real-Time Replanning. *IJCAI*, 2, 1652–1659.

Taufiqurohman, M., & Sari, N. F. (2018). Odometry Method and Rotary Encoder for Wheeled Soccer Robot. *IOP Conference Series: Materials Science and Engineering*, 407(1). <https://doi.org/10.1088/1757-899X/407/1/012103>

Tharindu Weerakoon Supervisor, W., & Ishii, K. (2016). *Artificial Potential Field and Feature Extraction Method for Mobile Robot Path Planning in Structured Environments*.

Triharminto, H. H., Wahyunggoro, O., Adji, T. B., & Cahyadi, A. I. (2016). An integrated artificial potential field path planning with kinematic control for nonholonomic mobile robot. *International Journal on Advanced Science, Engineering and Information Technology*, 6(4), 410–418. <https://doi.org/10.18517/ijaseit.6.4.832>

Utomo, E. B. (2015). *Autonomous Mobile Robot Berbasis Landmark Menggunakan Particle Filter dan Occupancy Grid Maps untuk Navigasi, Penentuan Posisi, dan Pemetaan*.

Wahballa, H., & Mahamed, A. (2018). *Designing and implementation of PID controller robotic arm* توبر عارزل يلماكتلا يلضافتلا ببسانتلا مكتملا كييطنو ميمصت. *March*.

- Weerakoon, T., & Ishii. (2016). *Artificial Potential Field and Feature Extraction Method for Mobile Robot Path Planning in Structured Environments*.
- Weerakoon, T., Ishii, K., & Nassiraei, A. A. F. (2015). An Artificial Potential Field Based Mobile Robot Navigation Method To Prevent From Deadlock. *Journal of Artificial Intelligence and Soft Computing Research*, 5(3), 189–203. <https://doi.org/10.1515/jaiscr-2015-0028>
- Widodo, N. S., Akbar, S. A., & Rahman, A. (2018). Robot Operating System (ROS) Compatible Low Cost Rotating Light Detection and Ranging (Lidar) Design. *IOP Conference Series: Materials Science and Engineering*, 384(1). <https://doi.org/10.1088/1757-899X/384/1/012058>
- Zheng, K. (2017). ROS Navigation Tuning Guide. *ArXiv*, 2019, 1–23.
- Zheng, W., Cheng, L., Huang, J., Dai, Y., Shang, C., Peng, R., & He, Z. (2016). Research on path planning of family nursing robot based on robot operating system. *ICARM 2016 - 2016 International Conference on Advanced Robotics and Mechatronics*, 47–52. <https://doi.org/10.1109/ICARM.2016.7606893>
- Zhang, X., Lai, J., Xu, D., Li, H., & Fu, M. (2020). 2D Lidar-Based SLAM and Path Planning for Indoor Rescue Using Mobile Robots. *Journal of Advanced Transportation*, 2020.