DAFTAR PUSTAKA

[1] R. Siegwart and I. R. Nourbakhsh, Introduction to Autonomous Mobile Robots. Scituate, MA, USA: Bradford Company, 2004.

[2] Y.Q. Qin, D.B. Sun, N. Li, Y.G. Cen, Path planning for mobile robot using the particle swarm optimization with mutation operator, in: International Conference on Machine learning and Cybernetics, Shanghai, China, 2004, pp. 2473–2478.

[3] Y. Umeda and T. Yakoh, "Configuration and readhesion control for a mobile robot with external sensors," IEEE Transactions on Industrial Electronics, vol. 49, no. 1, pp. 241–247, Feb 2002.

[4] N. Uchiyama, T. Hashimoto, S. Sano, and S. Takagi, "Model-reference control approach to obstacle avoidance for a human-operated mobile robot," IEEE Transactions on Industrial Electronics, vol. 56, no. 10, pp. 3892–3896, Oct 2009.

[5] A. Gorbenko, M. Mornev, and V. Popov, "Planning a typical working day for indoor service robots," IAENG International Journal of Computer Science, vol. 38, no. 3, pp. 176–182, 2011.

[6] Y. Hiroi and A. Ito, "Influence of the height of a robot on comfortableness of verbal interaction," IAENG International Journal of Computer Science, vol. 43, no. 4, pp. 447–455, 2016.

[7] R. C. Hidayat, A. R. Rafsanzani, O. Wahyunggoro, and A. I. Cahyadi, "Local arrival time field based path planning using guided waypoints for unknown environment," in 2018 3rd International Conference on Information Technology, Information System and Electrical Engineering (ICITISEE), Nov 2018, pp. 325–329.

[8] R. Rafsanzani, R. C. Hidayat, A. I. Cahyadi, and S. Herdjunanto, "Omnidirectional sensing for escaping local minimum on potential field mobile robot path planning in corridors environment," in 2018 3rd

International Seminar on Sensors, Instrumentation, Measurement ans Metrology (ISSIMM), Dec 2018, pp. 79–83.

[9] M. Mendes, A. P. Coimbra, and M. M. Crisostomo, "Assessing the performance of sdm-based robot navigation with different image processing techniques," IAENG International Journal of Computer Science, vol. 39, no. 4, pp. 349–356, 2012.

[10] Gorbenko and V. Popov, "Visual landmark selection for mobile robot navigation," IAENG International Journal of Computer Science, vol. 40,no. 3, pp. 134–142, 2013.

[11] A. M. Sakti, A. I. Cahyadi, and I. Ardiyanto, "Path planning and path following using arrival time field for nonholonomic mobile robot," in 2017 International Conference on Advanced Computing and Applications (ACOMP), Nov 2017, pp. 143–148.

[12] E. W. Dijkstra, "A note on two problems in connexion with graphs," Numer. Math., vol. 1, no. 1, pp. 269–271, Dec 1959.

[13] Takayuki Goto, Takeshi Kosaka, and Hiroshi Noborio, "On the Heuristic of A* or A algorithm in ITS and Robot Path-Planning," Proceedings of the 2003 IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 1159-1166, Oct, 2003.

[14] A.M. Zou, Z.G. Hou, S.Y. Fu, M. Tan, Neural Networks for Mobile Robot Navigation: A Survey, Springer–Verlag, Berlin, Heidelberg, 2006, pp. 1218–1226.

[15] Y. Hu, S.X. Yang, A knowledge based genetic algorithm for path planning of a mobile robot, in: IEEE International Conference on Robotics and Automation, ICRA, New Orleans, LA, USA, 2004, pp. 4350–4355.

[16] E. Masehian, D. Sedighizadeh, Multi-objective PSO and NPSO based algorithms for robot path planning, Adv. Electr. Comput. Eng. 10 (4)(2010) 69-76

[17] B. Englot, F. Hover, Multi-goal feasible path planning using ant colony optimization, in:IEEE International Conference on Robotics and Automation, ICRA, Shanghai, China, 2011, pp. 2255-2260.

[18] T.S. Hong, D. Nakhaeinia, B. Karasfi, Application of fuzzy logic in mobile robot navigation, in: Fuzzy Logic - Controls, Concepts, Theories and Applications, 2012, pp. 21–36.

[19] D.J Webb, J. Berg, Kinodynamic RRT*:Asymptotically optimal motion planning for robots with linear dynamics, in: IEEE International Conference on Robotics and Automation, ICRA, Karlsruhe, Germany, 2013, pp. 5054-5061.

[20] I. Ardiyanto, J. Miura, Real-time navigation using randomized kinodynamic planning with arrival time field, Robot, Auton. Syst. 60 (2012) 1579-1591.

[21] J Yao, C Lin, X Xie. Path Planning for Virtual Human Motion Using Improved A* Algorithm, Seventh International Conference on Information Technology. 2010, pp. 1154-1158.

[22] H. Chiang, N. Malone, K. Lesser, M. Oishi, L. Tapia, Path-guided artificial potential fields with stochastic reachable sets for motion planning in highly dynamic environments, in: IEEE International Conference on Robotics and Automation, ICRA, Washington, USA, 2015, pp. 2374-2354.

[23] H. H. Triharminto, O. Wahyunggoro, T. B. Adji, A. Cahyadi, I. Ardiyanto, Iswanto, Local Information using Stereo Camera in Artificial Potential Field based Path Planning - IAENG International Journal of Computer Science, 44(3):316-326, 2017.

[24] S. S. Ge, Y. J. Cui, “Dynamic motion planning for mobile robot s using potential field method,” Autonomous Robots, vol. 13, no. 3, pp. 207~ 222, November. 2002.

[25] Shi hui, Cao wen, "A* algorithm Improvement and Its Application In Path Planning," Geomatics & Spatial Information Technology, Vol. 32, No.6, pp. 208-211, Dec, 2009.

[26] Zhang renping, Zhou qingzhong, "Updated A* algorithm and its application," Computer system & Application, pp. 98-100, 2009.

[27] C. Samson, "Velocity and torque feedback control of a nonholonomiccart," inLecture Notes in Control and Information Science, C. Canudasde Wit, Ed.Berlin, Germany: Springer-Verlag, 1991, pp. 125–151.

[28] N. Sarkar, X. Yun, and V. Kumar, "Control of mechanical systems withrolling constraints: Application to dynamic control of mobile robots,"Int. J. Robot. Res., vol. 13, no. 1, pp. 55–69, 1994.

[29] Khatib, O., R. Holmberg. 2000. *Development and Control of a Holonomic Mobile Robot for Mobile Manipulation Tasks*. International Journal of Robotics Research, Vol 19 No 11 : 1066-1074.

[30] G Kronreif., R. Probst. 1997. *Modular Control System for Robotized Cells and Lines.* 6th International Workshop on Computer Aided Systems Theory, Las Palmas de Gran Canaria, Spain, February 24-28, 1997.

[31] Abhisek Singh, Garima Bisht, and P.K Padhy, "Neural Network Based Adaptive Non Linear PID Controller For Non Holonomic Mobile Robot," IEEE. International Conference On Control, Automation, Robotics, and Embedded System (CARE).

[32] Guanghui Li, Yamashita A, Asami Hajime, Tamura Yasuke., An Efficient Improved Artificial Potential Field Based Regression Search Method for Robot Path Planning. Proc. Of the 2012International Conference on Mechatronics and Automation, Chengdu-China., August 2012.

[33] H. Wang, J Zhou, G Zheng, Y Liang. HAS: Hierarchical A-Star algorithm for big map navigation in special areas.International Conference on Digital Home. pp. 222-225, 2014.

[34] J. Peng, Y Huang, G Luo. Robot Path Planning Based on Improved A* Algorithm. International Journal of Cybernetics And Information Technologies, Vol. 15, No. 2, 2015. DOI: 10.1515/cait-2015-0036.

[35] D. Wooden and M. Egerstedt, "Oriented visibility graphs: lowcomplexity planning in real-time environments," in Proceedings 2006 IEEE International Conference on Robotics and Automation, 2006. ICRA 2006, May 2006, pp. 2354–2359.

[36] Y. Tarutoko, K. Kobayashi, and K. Watanabe, "Topological map generation based on delaunay triangulation for mobile robot," in 2006 SICEICASE International Joint Conference, Oct 2006, pp. 492–496.

[37] S. Benders and S. Schopferer, "A line-graph path planner for performance constrained fixed-wing uavs in wind fields," in 2017 International Conference on Unmanned Aircraft Systems (ICUAS), June 2017, pp. 79–86.

[38] M. Freese, S. Singh, F. Ozaki, and N. Matsuhira, "Virtual robot experimentation platform v-rep: A versatile 3d robot simulator," in Simulation, Modeling, and Programming for Autonomous Robots. Berlin, Heidelberg: Springer Berlin Heidelberg, 2010, pp. 51–62.

[39] E. Rohmer, S. P. N. Singh, and M. Freese, "V-rep: A versatile and scalable robot simulation framework," in 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems, Nov 2013, pp. 1321–1326.

[40] V. Sharma, S. Yildirim-Yayilgan, and L. V. Gool, "Low-cost scene modeling using a density function improves segmentation performance," in 2016 25th IEEE International Symposium on Robot and Human Interactive Communication (RO MAN), Aug 2016, pp. 77–84.

[41] P. E. Hart, N. J. Nilsson, and B. Raphael, "A formal basis for the heuristic determination of minimum cost paths," IEEE Transactions on Systems Science and Cybernetics, vol. 4, no. 2, pp. 100–107, July 1968.

[42] H. D. Kim, B. Seon, C. R. Lee, and S. K. Kim, "Auto-Tuning Altitude Controller with Steepest Gradient Descent Algorithm for Quadrotors," in

2018 18th International Conference on Control, Automation and Systems (ICCAS 2018), Oct 2018, pp. 867-871.

[43] Y. Zhang, M. Xiao, B. Qiu, Y. Shi, and Z. Xue, "Type-Z0G1 Controller Using Gradient Descent of State Vector for Output Tracking of Time-Invariant Linear System," in 2017 Chinese Automation Congress (CAC), pp. 2065-2070.

[44] A. Smola and S.V. N Vishwanatan, Introduction To Machine Learning, UK : Cambridge University Press, 2008.