DAFTAR PUSTAKA

Abdollahi, A., Tabar, A.F., dan Khodadadi, H., 2015, Optimal Controller Design for Quadrotor by Genetic Algorithm with the Aim of Optimizing the Response and Control Input Signals,*Cumhuriyet Science Journal*, **36**: 135–147.

Astrom, K.J., dan Wittenmark, B., 1995, *Adaptive Control,* 2nd ed. Addison Wesley.

Ban, Z ., dan Crnosija, P., 2003, Application of the MRAC with Simplified Discrete Parameter Adaptation Algorithm for Control of the DC Electromotor Drive,*Proceedings of the IEEE International Conference on Industrial Technology*, Vol. 1, pp. 506-511.

Bolandi, H., Rezaei, M., Mohsenipour, R., Nemati, H., dan Smailzadeh, S.M., 2013, Attitude Control of a Quadrotor with Optimized PID Controller,*Intelligent Control and Automation*, **04**: 335.

Bouabdallah, S., Noth, A., dan Siegwart, R., 2004, PID vs LQ Control Techniques Applied to an Indoor Micro Quadrotor,*2004 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2004),* No. 2451–2456 vol.3.

Bresciani, T., 2008, Modelling Identification and Control of a Quadrotor Helicopter,*English*, (4October), p.213.

Budiharto, W., 2004, *Interfacing Komputer dan Mikrokontroler*, Elex Media Komputindo, Jakarta.

Cavalcante, S.R., Araujo, D.,Varela, A.T., dan Barreto, D.A.G., 2013, Construction and PID Control for Stability of an Unmanned Aerial Vehicle of the Type Quadrotor, *Robotics Symposium and Competition (LARS/LARC),* Latin American, IEEE, hal. 95–99.

Coza, C., dan Macnab, C.J.B., 2006, A New Robust Adaptive-Fuzzy Control Method Applied to Quadrotor Helicopter Stabilization, University of Calgari, Canada.

Dharmawan, A., dan Putera, C.A.L., 2012, Purwarupa Sistem Integrasi Quadcopter dan Mobile Robot,*IJEIS - Indonesian Journal of Electronics and Instrumentation Systems*, **2**: 97–108.

Dharmawan, A., Simanungkalit, Y.Y., dan Megawati, N.Y., 2014, Pemodelan Sistem Kendali PIDpada Quadcopterdengan Metode Euler Lagrange,*IJEIS - Indonesian Journal of Electronics and Instrumentation Systems*, **4**: 13–24.

Domingues, J.M.B., 2009, Quadrotor Prototype, *Disertasi*,Uneversidade Tecnica deLisboa.

Doren, V.V., 2010, How Gain Scheduling Works, http://www.controleng.com/ search/search- single-display/back-to-basics-how-gain-scheduling-works/52cd5aac6a456dfb6b1352494e4dd169.html, diakses pada 26 Juli 2016.

Fan., dan Yongkun., 2007, Appplication of PID Controller using MRAC Techniquesfor Control of the DC Electromotor Drive,*Institute of Optics and Electronics*, Chinese Academy of Sciences.

García, C.L.R., Dzul López, A.E., Lozano, R., dan Pégard, C., 2013,*Quad Rotorcraft Control*, Advances in Industrial Control. Springer London, London.

Goodwin, G.C., Greabe, S.F., dan Salgado, M.E., 2009, *Control System Design*, Pearson Education, Australia.

Gupte, S., Mohandas, P.I.T., dan Conrad, J.M., 2012, A survey of quadrotor Unmanned Aerial Vehicles, dalam: *2012 Proceedings of IEEE Southeastcon*, hal. 1–6.

Hameedkalifullah, A., dan Palani, S., 2014, Optimal tuning of PID Power System Stabilizer for Multy Machine Power System Using Harmony Search Algorithm,*Journal of Theoretical and AppliedInformation Technology*, Vol.66, No.2.

Hidayat, W., 2009, Penerapan Adaptive PID Controller pada Navigasi Robot Cerdas Pemadam Api Divisi Expert Single dengan Menggunakan Algoritma LMS, *Skripsi*, Jurusan Teknik Elektro, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta.

Kardono., Effendi A.K.R., dan Fatoni, A., 2012, Perancangan dan Implementasi Sistem Pengaturan Optimal LQR untuk Menjaga Kestabilan Hover pada Quadcopter. *Jurnal Teknik ITS*, 1, pp.7–13.

Kartika, A.P., 2014, Implementasi Sistem Kendali Gerak Lurus Otomatis pada Kapal Katamaran Tanpa Awak, *Skripsi,* Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.

Kholifatulloh, A., 2015, Implementasi Metode PD Fine-Tuned dengan Analisis Lyapunov pada Gerak Melayang Quadrotor, *Skripsi,* Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.

Kumar, J.S., dan Nema, R.K., 2011, Comparative Analysis of MIT Rule and Lyapunov Rule inModel Reference Adaptive Control Scheme,*Innovative Systems Design and Engineering,*Vol. 2, No. 4 (2011),ISSN: 2222-1727.

Kusumo, R.B., 2015, Implementasi Metode PID Fuzzy pada Quadrotor untuk Gerak Terbang Maju,*Skripsi*,Universitas Gadjah Mada, Yogyakarta.

Li, J., dan Li, Y., 2011, Dynamic Analysis and PID Control for a Quadrotor, dalam: *2011 International Conference on Mechatronics and Automation (ICMA)*. Dipresentasikan pada 2011 International Conference on Mechatronics and Automation (ICMA), hal. 573–578.

Li, X., Qu, S., dan Cai, L., 2014, Studing of PID Parameter Optimization Method for Attitude Controller of Quadrotor,*Journal of Computational Information Systems*, **10**: 7805–7812.

Li, Z., Hu, J., dan Huo, X., 2012, PID Control Based on RBF Neural Network for Ship Steering, *IEEE,***12**:978-1-4673-4805-8.

Luukkonen, T., 2011, Modelling and Control of Quadcopter. *Independent research project in applied mathematics, Espoo*.

Mareels, I.M.Y., dan Bitmead, R.R., 1988, Non-linear dynamics in adaptive control: Periodic andchaotic stabilization–II Analysis, *Automatica*, 24(1988), pp. 485-497.

Matthews, J.S., 2006, Adaptive Control of Micro Air Vehicles,*Thesis,*Electrical and Computer Engineering Brigham Young University,2006.

Mulyani., Astrowulan, K., dan Susila, J., 2012, Autolanding Pada UAV (Unmanned Aerial Vehicle) Menggunakan Kontroler PID-Fuzzy , pp.1–5.

Ogata, K., 2010,*Modern Control Engineering*, 5th ed. Prentice Hall.

Omar, M., Ebrahim, M.A., Ghany, A.MA., dan Bendary, F., 2015, Harmony Search based PID for Multi Area Load Frequency Control Including Boiler Dynamics and Nonlinearities,*WSEAS TRANSACTIONS on CIRCUITS and SYSTEMS,* **14**: 2224-266X.

Paulus, D.T., 2015, Implementasi Metode PID Fuzzy Pada Sistem Penerbangan Quadrotor Untuk Penelusuran Lorong, *Skripsi*, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Gadjah Mada, Yogyakarta.

Pitowarno, E., 2006, *Robotika Desain Kontrol dan Kecerdasan Buatan*, Andi, Yogyakarta.

Pri, A., 2015, Quadcopters Drone Flyers, *http://www.quadcopterflyers.com/2015/02/quadcopters-yaw-roll-and-pitch-defined.html,* diakses pada tanggal 16 Desember 2016.

Priyambodo, T.K., Dharmawan, A., dan Putra, A.E., 2015, PID self tuning control based on Mamdani fuzzy logic control for quadrotor stabilization, dalam: *AIP Conference Proceedings*. 1705, 020013.

Priyambodo, T.K., Putra, A.E., dan Dharmawan, A., 2015, Optimizing control based on ant colony logic for Quadrotor stabilization, dalam: *2015 IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES)*. Dipresentasikan pada 2015 IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES), hal. 1–4.

Putera, A.E., 2004, *Belajar Mikrokontroler AT89C51/52/55 Teori dan Aplikasi*, Edisi Kedua, Gava Media, Yogyakarta.

Saad, M.S., Jamaluddin, H., dan Darus, I.Z.M., 2012,Implementation of PID Controller Tuning using Differential Evolution and Genetic Algorithms,*International Journal of Innovative Computing Information and Control*, **8**: 7761–7779.

Sadeghzadeh, I., Mehta, A., Zhang, Y., dan Rabath, C., 2011, Fault-Toleran Trajectory Tracking Controlaf a Quadrotor Helicopter Using Gain Scheduled PID and Model Reference Adaptive Control, *Annu. Conf. Progn. Heal. Manag. Soc.,* pp. 1-10, 2011.

Sambariya, V.R., dan Prasad, R., 2015, Design of Robust PID Power System Stabilizer for Multimachine Power System Using HS Algorithm, *American Journal of Electrical and Electronic Engineering,* Vol. 3, No. 3, 75-82.

Sheikhpor, S., dan Shouraki, S.B., 2013, *A Model-Based Fuzzy Controller using Parallel Distributed Compensation Method for Quadrotor Attitude Stabilization*, Sharif University of Technology, Iran.

Shtessel, Y., Edwards, C., Fridman, L., dan Levant, A., 2014, Introduction: Intuitive Theory of Sliding Mode Control, Sliding Mode Control and Observation, *Control Engineering*. Springer New York, hal. 1–42.

Singh, B., dan Kumar, V., 2015, Design and Simulation of Auto Tuning of PID Controller using MRAC Technique for Coupled Tanks System,*International Journal of Science an Research (IJSR),* Vol. 4. No. 5, May 2015.

Sudewo, T., Iskandar, E., dan Astrowulan, K., 2012, Disain dan Implementasi Kontrol PID Model Reference Adaptive Control untuk Automatic Safe Landing Pada Pesawat UAV Quadcopter,*Jurnal Teknik ITS,* Vol.1, No. 1 (Sept.2012), ISSN: 2301-9271.

Swarnkar, P.S., Jain, R.K., dan Nema., 2010, Application of Model Reference Adaptive Control Scheme To Second Order System Using MIT Rule, *International Conference on Electrical Power and Energy Systems (ICEPES-2010)*, MANIT, Bhopal, India.

Sylvia, A., Astrowulan, K., dan Iskandar, E., 2014, Perancangan dan Simulasi MRAC PID Control untuk Proses Pengendalian Temperatur pada

Continuous Stirred Tank Reactor (CSTR), *Jurnal TeknikPOMITS,* Vol. 3, No. 1, (2014), ISSN: 2337-3539.

Wicaksono, H., 2013, Self Stabilizing 1 Axis Quadcopter Using T2-Fuzzy Controller,*Seminar Riset dan Teknologi (SRITI)*.

Wimbo, A.W., 2015, Perancangan Sistem Kendali Adaptif Multivariabel Quadrotor Menggunakan Sistem Kendali Adaptif Model Acuan (SKAMA),*Thesis,* Teknik Elektro, Fakultas Teknik, Universitas Gadjah Mada,Yogyakarta.

Xiao, S.L., Li, Y.M., danLiu, J.G., 2012,A Model Reference Adaptive PID Control for Electromagnetic Actuated Micro-positioning Stage, *Proceedings of the IEEE International Conference,pp:97-102.*

Yilmaz, E., 2014, Adaptive Robust Attitude Controller Designed For A Quadrotor Platform, *Thesis,* AerospaceEngineering Midle East Technical Univerity 2014.

Zhang, H., Yang,C., dan Cai,T., 2016, A Model Reference Adaptive Control/PID Compound Scheme on Disturbance Rejection for an Aerial Inertially Stabilized Platform, *Hindrawi Publishing Corporation Journal of Sensor,***11**: 7964727.

Zhou, X., Yang, C., dan Cai, T., 2016, A Model Reference Adaptive Control/PID Compound Scheme on Disturbance Rejection for an Aerial Inertially Stabilized Platform,*Hindrawi Publishing Corporation Journal of Sensor,* Vol. 2016, Article ID 7964727.