



## DAFTAR PUSTAKA

- [1] ST Life.Augmented, “*World’s smallest Time-of-Flight ranging and gesture detection sensor*”.2018
- [2] A.R.A.Tahtawi, “ *Kalman Filter Algorithm Design for HC-SR04 Ultrasonic Sensor Data Acquisition System*”, dalam International Journal of Information Technology and Electrical Engineering, Vol.2, No.1, Maret 2018.
- [3] Invensense, “*MPU-6000 and MPU-6050 Register Map and Description Revision 4.2*”.2013.
- [4] Honeywell, ”*3-Axis Digital Compass IC HMC5883L*”.2013
- [5] S. O. H. Madgwick, A. J. L. Harrison and R. Vaidyanathan, "Estimation of IMU and MARG orientation using a gradient descent algorithm," 2011 IEEE International Conference on Rehabilitation Robotics, Zurich, 2011, pp. 1-7, doi: 10.1109/ICORR.2011.5975346.
- [6] Kok, Manon & Hol, J.D. & Schön, Thomas & Gustafsson, F. & Luinge, Hendrik. (2012). *Calibration of a magnetometer in combination with inertial sensors*. 15th International Conference on Information Fusion, FUSION 2012. 787-793.
- [7] Li, Qingde & Griffiths, J. (2004). *Least squares ellipsoid specific fitting*. Proceedings - Geometric Modeling and Processing 2004. 2004. 335- 340. 10.1109/GMAP.2004.1290055.
- [8] J. Leporcq, “Position Estimation Using an Inertial Measurement Unit Without Tracking Sistem,” 2018.
- [9] E. Novati. (2018, Jan 18). “Concise description of why rotation quaternions use half the angle” [Online] Available from: <https://math.stackexchange.com/questions/1385028/concise-description-of-why-rotationquaternions-use-half-the-angle>
- [10] S.O.H. Madgwick. (2010, Apr 30). “An efficient orientation filter for inertial and inertial/magnetic sensor arrays” [Online]. Available from: [https://www.samba.org/tridge/UAV/madgwick\\_internal\\_report.pdf](https://www.samba.org/tridge/UAV/madgwick_internal_report.pdf)
- [11] P.M.Salmony.2019.”*Quaternion-Based Extended Kalman Filter for Fixed-Wing UAV Attitude Estimation*”.[Online], Available: [http://philsal.co.uk/wp-content/uploads/2019/10/EKF\\_FixedWing-1.pdf](http://philsal.co.uk/wp-content/uploads/2019/10/EKF_FixedWing-1.pdf)
- [12] Khalil, H., 2002. *Nonlinear System*. 3rd ed. New Jersey: Prentice Hall.
- [13] N. Hovakimyan and C. Cao, *L1 adaptive control theory: guaranteed robustness with fast adaptation*. SIAM-Society for Industrial and Applied Mathematics, 2010.



- [14] Sanwale, J., Trivedi, P., Kothari, M., & Malagaudanavar, A. (2020). "Quaternion-based position control of a quadrotor unmanned aerial vehicle using robust nonlinear third-order sliding mode control with disturbance cancellation". Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 234(4), 997–1013. <https://doi.org/10.1177/0954410019893215>
- [15] Kotaru, P., Edmonson, R., and Sreenath, K. (December 23, 2019). "Geometric L<sub>1</sub> Adaptive Attitude Control for a Quadrotor Unmanned Aerial Vehicle." ASME. J. Dyn. Sys., Meas., Control. March 2020; 142(3): 031003. <https://doi.org/10.1115/1.4045558>
- [16] Subhendu Bashin, "Nonlinear and Adaptive Control", [online] Available: <https://bit.ly/3fXpusJ>
- [17] D. Mihailescu-Stoica, R. Acuna and J. Adamy, "High Performance Adaptive Attitude Control of a Quadrotor," 2019 18th European Control Conference (ECC), Naples, Italy, 2019, pp. 3462-3469, doi: 10.23919/ECC.2019.8796203.
- [18] Ryan G. Beall, "Engineering of Fast and Robust Adaptive Control for Fixed-Wing Unmanned Aircraft", 2017, Naval Postgraduate School.
- [19] H. Loubar, R. Zammoum Boushaki, Y. Aribi and K. Abdellah, "Altitude Back-stepping Control of Quadcopter," 2019 International Conference on Applied Automation and Industrial Diagnostics (ICAAID), Elazig, Turkey, 2019, pp. 1-11, doi: 10.1109/ICAAID.2019.8934965.
- [20] S. Zhao, W. Dong and J. A. Farrell, "Quaternion-based trajectory tracking control of VTOL-UAVs using command filtered backstepping," 2013 American Control Conference, Washington, DC, 2013, pp. 1018-1023, doi: 10.1109/ACC.2013.6579970.