## **DAFTAR PUSTAKA**

- [1] W. T. Higgins, "A Comparison of Complementary and Kalman Filtering," IEEE Transactions on Aerospace and Electronic Systems, vol. AES-11, no. 3, pp. 321–325, May 1975.
- [2] T. Kim, K. Seo, J. Kim, and H. S. Kim, "Adaptive Impedance Control of a Cleaning Unit for a Novel Wall-Climbing Mobile Robotic Platform (ROPE RIDE)," in Proc. 2014 IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics (AIM), Besançon, France, Jul. 8–11, 2014, pp. 994–999.
- [3] Y. Jiali and Z. Jihong, "An Angular Acceleration Estimation Method Based on the Complementary Filter Theory," in Proc. of the 35th Chinese Control Conference, Chengdu, China, 2016, pp. 7442–7447.
- [4] Y. Kanayama, et al., "A Stable Tracking Control Method for an Autonomous Mobile Robot," in Proc. of the 1990 IEEE Int. Conf. on Robotics and Automation, Cincinnati, OH, USA, May 1990, pp. 384–389.
- [5] M. Vega-Heredia, R. E. Mohan, T. Y. Wen, J. S. 'Aisyah, A. Vengadesh, S. Ghanta, and S. Vinu, "*Design and Modelling of a Modular Window Cleaning Robot*," *Automation in Construction*, vol. 103, pp. 268–278, Jan. 2019.
- [6] S. Yu and Z. Jiang, "Design of the Navigation System through the Fusion of IMU and Wheeled Encoders," Computer Communications, vol. 160, pp. 730–737, 2020.
- [7] Y. Katsuki, T. Ikeda, and M. Yamamoto, "Development of a High Efficiency and High Reliable Glass Cleaning Robot with a Dirt Detect Sensor," in Proc. of the 2011 IEEE/RSJ Int. Conf. on Intelligent Robots and Systems (IROS), San Francisco, CA, USA, Sep. 2011, pp. 5133–5138.
- [8] A. Sofwan, H. Afrisal, H. R. Mulyana, and A. Goni, "Development of Omni-Wheeled Mobile Robot Based-on Inverse Kinematics and Odometry," in Proc. of the 2019 6th Int. Conf. on Information Technology, Computer, and Electrical Engineering (ICITACEE), Semarang, Indonesia, Sep. 2019, pp. 1–6.
- [9] T. Miyake, H. Ishihara, R. Shoji, and S. Yoshida, "Development of Small-Size Window Cleaning Robot: A Traveling Direction Control on Vertical Surface Using Accelerometer," in Proc. of the 2006 IEEE Int. Conf. on Mechatronics and Automation (ICMA), Luoyang, China, Jun. 2006, pp. 1302–1307.
- [10] H. Zhang, J. Zhang, and G. Zong, "Realization of a Service Climbing Robot for Glass-wall Cleaning," in *Proc. of the 2004 IEEE Int. Conf. on Robotics and Biomimetics*, Shenyang, China, Aug. 2004, pp. 395–400.

- [11] M. Salunke and A. R. Mahajan, "Glass Cleaning Robot for High Rise Buildings," International Research Journal of Engineering and Technology (IRJET), vol. 6, no. 7, pp. 2426–2431, July 2019.
- [12] T. Miyake and H. Ishihara, "Mechanisms and Basic Properties of Window Cleaning Robot," in Proc. of the 2003 IEEE/ASME Int. Conf. on Advanced Intelligent Mechatronics, Kobe, Japan, July 2003, pp. 1372–1377.
- [13] A. Pratama, A. H. Pramono, and R. Setiawan, "Movement Control of Two Wheels Balancing Robot Using Cascaded PID Controller," in Proc. of the 2015 Int. Electronics Symposium (IES), Surabaya, Indonesia, Sep. 2015, pp. 48–53.
- [14] M. Vega-Heredia, I. Muhammad, S. Ghanta, V. Ayyalusami, S. Aisyah, and M. R. Elara, "*Multi-Sensor Orientation Tracking for a Façade-Cleaning Robot*," *Sensors*, vol. 20, no. 5, 1483, Mar. 2020. [Online]. Available: https://doi.org/10.3390/s20051483
- [15] ESPP Project Documentation, "Complementary Filter ESP32 ESPP main documentation." [Online]. Available: https://esp-cpp.github.io/espp/filters/complementary.html.
- [16] PLCDROID, "Pengertian Open Loop dan Close Loop," PLCDROID, diperbarui 06-Jul-2020. [Online]. Tersedia: https://www.plcdroid.com/2015/04/pengertian-open-loop-dan-close-loop.html.
- [17] AHRS Developers, "Complementary Filter AHRS 0.4.0 documentation." [Online]. Available: https://ahrs.readthedocs.io/en/latest/filters/complementary.html.
- [18] MIT OpenCourseWare, "16.333: Lecture #15 Complementary filter examples (Aircraft Stability and Control, Fall 2004)." [Online]. Available: https://ocw.mit.edu/courses/16-333-aircraft-stability-and-control-fall-2004/9bc94307e01f85dbdfee05e87851361a lecture 15.pdf.
- [19] F. Haugen, "Derivation of a Discrete-Time Lowpass Filter," TechTeach, Mar. 21, 2008. [Online]. Available: https://techteach.no/simview/lowpass\_filter/doc/filter\_algorithm.pdf
- [20] Control Systems Academy, "First-Order Low-Pass Filter Discretization." [Online]. Available: https://controlsystemsacademy.com/0020/0020.html.
- [21] C. S. Evans, "*Thickness and the Hypsometric Equation*," lecture notes, Dept. Atmos. Sci., Univ. of Wisconsin–Milwaukee. [Online]. Available: PDF..
- [22] American Meteorological Society, "Glossary of Meteorology— Hypsometry/Hypsometric Equation." [Online]. (American Meteorological Society)

- [23] G. Welch and G. Bishop, "An Introduction to the Kalman Filter," Univ. of North Carolina at Chapel Hill, Chapel Hill, NC, USA, Tech. Rep., 2006.
- [24] M. S. Grewal and A. P. Andrews, *Kalman Filtering: Theory and Practice with MATLAB*, 4th ed. Wiley, 2015.
- [25] S. Särkkä, *Bayesian Filtering and Smoothing*. Cambridge University Press, 2013.