

DAFTAR PUSTAKA

- Ahmed, F. and Jenihhin, M. (2022) ‘A survey on UAV computing platforms: A hardware reliability perspective’, *Sensors*, 22(16), p. 6286.
doi:10.3390/s22166286.
- Bodo, Z. and Lantos, B. 2017. State Estimation for uavs using sensor fusion. 2017 IEEE 15th International Symposium on Intelligent Systems and Informatics (SISY), pp. 000111–000116. doi:10.1109/sisy.2017.8080535.
- Brown, S.D. and Vranesic, Z.G. 2003. Fundamentals of digital logic with Verilog design. Boston: McGraw-Hill.
- Bruno, F. and Eschemann, G. 2024. The FPGA Programming Handbook: An essential guide to FPGA design for transforming your ideas into hardware using SystemVerilog and VHDL. Birmingham, UK: Packt Publishing Ltd.
- Chovancová, A. et al. 2014. Mathematical modelling and parameter identification of Quadrotor (a survey). *Procedia Engineering*, 96, pp. 172–181.
doi:10.1016/j.proeng.2014.12.139.
- Condomines, J.-P. 2018. Nonlinear kalman filtering for multi-sensor navigation of unmanned aerial vehicles: Application to guidance and navigation of unmanned aerial vehicles flying in a complex environment. Amsterdam: Elsevier.
- Guo, J. et al. 2022 Autonomous Flight Control Design based on multi-sensor fusion for a low-cost quadrotor in GPS-denied environments. 2022 7th Asia-Pacific Conference on Intelligent Robot Systems (ACIRS), pp. 53–57. doi:10.1109/acirs55390.2022.9845557.
- Lenz, J. and Edelstein, S. 2006. Magnetic sensors and their applications. *IEEE Sensors Journal*, 6(3), pp. 631–649. doi:10.1109/jsen.2006.874493.
- Ma, Z., Chen, Z. and Huang, L. 2019. A review: The Survey of Attitude Estimation in autonomous UAV navigation, *Proceedings of the 2019 International Conference on Wireless Communication, Network and Multimedia Engineering (WCNME 2019)* [Preprint]. doi:10.2991/wcnme-19.2019.12.

- Miao Hui, W. and Thompson, M. 2022. Attitude estimation of four-rotor UAV based on extended Kalman filter, *International Journal of Engineering Continuity*, 1(2), pp. 72–84. doi:10.58291/ijec.v1i2.52.
- Mills, A., Jones, P.H. and Zambreno, J. 2016. Parameterizable FPGA-based Kalman filter coprocessor using piecewise affine modeling, 2016 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW) [Preprint]. doi:10.1109/ipdpsw.2016.101.
- Parikh, D., Vohra, S. and Kaveshgar, M. (2021) ‘Comparison of attitude estimation algorithms with IMU under external acceleration’, *2021 IEEE International Symposium on Smart Electronic Systems (iSES)*, pp. 123–126. doi:10.1109/ises52644.2021.00037.
- Qiu, Z., Li, T. and Wang, F. 2022. Design of a positioning system for UAV in GPS-denied environment, 2022 21st International Symposium on Communications and Information Technologies (ISCIT), pp. 43–46. doi:10.1109/iscit55906.2022.9931225.
- Quan, Q. 2017. *Introduction to Multicopter Design and Control*. 1st edn. Springer Publishing Company, Incorporated.
- QgroundControl (2023) Sensor Setup PX4. diakses pada 5 April 2025. https://docs.qgroundcontrol.com/Stable_V4.3/en/qgc-user-guide/setup_view/sensors_px4.html.
- Shah, D. *et al.* (2019) ‘Yosys+nextpnr: An open source framework from Verilog to bitstream for commercial fpgas’, *2019 IEEE 27th Annual International Symposium on Field-Programmable Custom Computing Machines (FCCM)*, pp. 1–4. doi:10.1109/fccm.2019.00010.
- Sheng, G. and Gao, G. 2019. Fusion attitude solving algorithm of four-rotor UAV based on improved extended Kalman filter, 2019 Chinese Automation Congress (CAC), pp. 3296–3299. doi:10.1109/cac48633.2019.8996893.
- Xin, M. *et al.* 2023. Power consumption estimation method of power ASIC based on FPGA, 2023 3rd International Conference on New Energy and Power Engineering (ICNEPE), pp. 757–762. doi:10.1109/icnepe60694.2023.10429707.

Zhang, H., Yang, X. and Gao, J. 2023. A low-cost hardware platform of UAV attitude estimation based on Mahony algorithm, 2023 8th International Conference on Intelligent Computing and Signal Processing (ICSP), pp. 1267–1271. doi:10.1109/icsp58490.2023.10248709.

Zhu, Y. *et al.* (2022) ‘Attitude Solving algorithm and FPGA implementation of four-rotor UAV based on improved Mahony Complementary Filter’, *Sensors*, 22(17), p. 6411. doi:10.3390/s22176411.