DAFTAR PUSTAKA

Wu, Y., Kuang, J., & Niu, X. (2023). Wheel-INS2: Multiple MEMS IMU-Based Dead Reckoning System with Different Configurations for Wheeled Robots. *IEEE Transactions on Intelligent Transportation Systems*, *24*(3), 3064–3077. https://doi.org/10.1109/TITS.2022.3220508

Hernández, M. S. (2023). Beliefs and attitudes of canarians towards the chilean linguistic variety. *Lenguas Modernas*, *62*, 183–209. https://doi.org/10.13039/501100011033

Hashemi, S. M., Norouzi, M., & Arshi, A. R. (2021). Gait Data analysis: Investigation of Normal Gait Response to Different Speeds Using Inertial Measurement Unit. *2021 28th National and 6th International Iranian Conference on Biomedical Engineering, ICBME 2021*, 305–309. https://doi.org/10.1109/ICBME54433.2021.9750363

Hacker, S., Kalkbrenner, C., Algorri, M. E., & Blechschmidt-Trapp, R. (2014b). Gait analysis with IMU: Gaining new orientation information of the lower leg. *BIODEVICES 2014 - 7th Int. Conference on Biomedical Electronics and Devices, Proceedings; Part of 7th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2014*, 127–133. https://doi.org/10.5220/0004787701270133

Nursyeha, M. A., Saputra, R. H., Aprillia, H., & Irwansyah, F. R. (2023). Implementasi Sensor Inertial Measurement Unit untuk Sistem Odometri Kendaraan Otonom. *SPECTA Journal of Technology*, *7*(2), 556–565. https://doi.org/10.35718/specta.v7i2.784

Seo, K. (2023). Real-Time Estimation of Walking Speed and Stride Length Using an IMU Embedded in a Robotic Hip Exoskeleton. *Proceedings – IEEE International Conference on Robotics and Automation*, *2023-May*, 12665-12671. https://doi.org/10.1109/ICRA48891.2023.10160770

Chen, Y., Zhang, G., Guo, J., Mehmood, R., & Liu, Y. (2016). A separable digital protractor based on IMU for angle measurement. *Proceedings - 2016 International Conference on Identification, Information and Knowledge in the Internet of Things, IIKI 2016*, *2018-January*, 227–231. https://doi.org/10.1109/IIKI.2016.4

Djuriatno, W., Maulana, E., Hasan, Arisandi, E. D., & Wijono. (2019). Velocity measurement base on inertial measuring unit. *Telkomnika (Telecommunication Computing Electronics and Control)*, *17*(4), 1898–1906. https://doi.org/10.12928/telkomnika.v17i4.11826

IEEE Robotics and Automation Society, Shenyang gong ye da xue, IEEE Robotics and Automation Society, & Institute of Electrical and Electronics Engineers. (n.d.). *ISR 2018: the 2018 International Conference on Intelligence and Safety for Robotics: August 24-27, 2018, Shenyang, China.*

Smyth, G. K. (1997). *Numerical Integration*

Dynamic Trapezoidal Rule. (2012).

IEEE Robotics and Automation Society, & Institute of Electrical and Electronics Engineers. (n.d.). *IEEE-CYBER 2018: the 8th Annual IEEE International Conference on Cyber Technology in Automation, Control and Intelligent Systems: July 19-23, 2018, Tianjin, China*

Hidayati Weni Gurita Aedi Lisda Fitriana Masitoh Jl Surya Kencana No, T., Gd, P. A., & Pamulang Tangerang Selatan -Banten, U. (n.d.). *METODE NUMERIK*.

Ferrete Ribeiro, N., & Santos, C. P. (n.d.). *Inertial Measurement Units: A Brief State of the Art on Gait Analysis*.

Byun, S., Lee, H. J., Han, J. W., Kim, J. S., Choi, E., & Kim, K. W. (2019). Walking-speed estimation using a single inertial measurement unit for the older adults. *PLoS ONE*, 14(12). https://doi.org/10.1371/journal.pone.0227075

Yang, S., & Li, Q. (2012). Inertial sensor-based methods in walking speed estimation: A systematic review. In *Sensors (Switzerland)* (Vol. 12, Issue 5, pp. 6102–6116). https://doi.org/10.3390/s120506102

Poonja, H. A., Shah, M. S. A., Uddin, R., Kazmi, S. M. H., Khan, H., Ali, A. H., & Shirazi, M. A. (2022). Walking Algorithm Using Gait Analysis for Humanoid Robot. *Engineering Proceedings*, *20*(1). https://doi.org/10.3390/engproc2022020035

Benallegue, M., Benallegue, A., Cisneros, R., & Chitour, Y. (2023). Velocity-Aided IMU-Based Tilt and Attitude Estimation. *IEEE Transactions on Automatic Control*, *68*(10), 5823–5836. https://doi.org/10.1109/TAC.2022.3225758

Aparna, G. J., Kamal, C., & Motta, R. N. (2021). IMU Based Attitude Estimation Using Adaptive Complimentary Filter. *Proceedings - International Conference on Communication, Information and Computing Technology, ICCICT 2021*. https://doi.org/10.1109/ICCICT50803.2021.9510153

Lasmadi, L., Kurniawan, F., & Pamungkas, M. I. (2021). Estimasi Sudut Rotasi Benda Kaku Berbasis IMU Menggunakan Kalman Filter. *AVITEC*, *3*(1). https://doi.org/10.28989/avitec.v3i1.909

Ma'arif, A., Iswanto, I., Nuryono, A. A., & Alfian, R. I. (2019). Kalman Filter for Noise Reducer on Sensor Readings. *Signal and Image Processing Letters*, *1*(2), 11–22. https://doi.org/10.31763/simple.v1i2.2

Wei, C., Wang, Y., & Yang, A. (2020). Mode Switching Adptive Kalman Filter for low-cost MEMS IMU. *Proceedings - 2020 Chinese Automation Congress, CAC 2020*, 999–1003. https://doi.org/10.1109/CAC51589.2020.9327747

Nilchan, N., Supnithi, P., & Phakphisut, W. (2020). *Improvement of Kalman Filter for GNSS/IMU Data Fusion with Measurement Bias Compensation; Improvement of Kalman Filter for GNSS/IMU Data Fusion with Measurement Bias Compensation*.

Li, Z., Su, Z., & Yang, T. (2019). Design of intelligent mobile robot positioning algorithm based on iμodometer/lidar. *Proceedings - 2019 International Conference on Sensing, Diagnostics, Prognostics, and Control, SDPC 2019*, 627–631. https://doi.org/10.1109/SDPC.2019.00118

Purnomo, D. P. (2018). Penerapan Sensor Posisi Pada Universal Testing Machine. *Tugas Akhir*. Komputer Kontrol, Vokasi, Institut Teknologi Sepuluh Nopember, Surabaya.

Utomo, M. F. R. (2016). Rancang Bangun Sensor Pemindai Gerak Tangan Manusia Menggunakan Sensor Akselerometer dan Sensor Giroskop untuk Mengendalikan Lengan Robot. *Tugas Akhir*. Teknologi Industri, Institut Teknologi Sepuluh Nopember, Surabaya.

Modise, T. D., Steyn, N., & Hamam, Y. (2017, January 10). Linear progression measurement and analysis of human gait for the development of a multifunctional robotic walker. *2016 Pattern Recognition Association of South Africa and Robotics and Mechatronics International Conference, 2016*. https://doi.org/10.1109/RoboMech.2016.7813148