

## DAFTAR PUSTAKA

- [1] H. Orimo, H. Ito, T. Suzuki, A. Araki, T. Hosoi, and M. Sawabe, “Reviewing the definition of ‘elderly,’” *Geriatr Gerontol Int*, vol. 6, no. 3, pp. 149–158, Sep. 2006, doi: 10.1111/j.1447-0594.2006.00341.x.
- [2] World Health Organization, “Falls.” Accessed: Oct. 15, 2023. [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/falls>
- [3] C. J. editors. Institute of Medicine (US) Division of Health Promotion and Disease Prevention; Berg RL, *The Second Fifty Years: Promoting Health and Preventing Disability, Falls in Older Persons: Risk Factors and Prevention*. 1992.
- [4] “Falls,” World Health Organization. Accessed: Oct. 15, 2023. [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/falls>
- [5] J. A. Stevens, J. E. Mahoney, and H. Ehrenreich, “Circumstances and outcomes of falls among high risk community-dwelling older adults,” *Inj Epidemiol*, vol. 1, no. 1, Dec. 2014, doi: 10.1186/2197-1714-1-5.
- [6] Smeru Research Institute, “The Situation of the Elderly in Indonesia ,” Jakarta, 2020. Accessed: Oct. 14, 2023. [Online]. Available: <https://smeru.or.id/en/publication/situation-elderly-indonesia-and-access-social-protection-programs-secondary-data>
- [7] W. Saadeh, S. A. Butt, and M. A. Bin Altaf, “A Patient-specific single sensor iot-based wearable fall prediction and detection system,” *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 27, no. 5, pp. 995–1003, May 2019, doi: 10.1109/TNSRE.2019.2911602.
- [8] K. de Miguel, A. Brunete, M. Hernando, and E. Gamba, “Home Camera-Based Fall Detection System for the Elderly,” *Sensors*, vol. 17, no. 12, p. 2864, Dec. 2017, doi: 10.3390/s17122864.
- [9] S. Buddy, “Why bathroom independence matters.” Accessed: Oct. 15, 2023. [Online]. Available: <https://shower-buddy.com/why-bathroom-independence-matters/>
- [10] “Nonfatal Bathroom Injuries Among Persons Aged  $\geq 15$  Years --- United States, 2008,” Centers for Disease Control and Prevention (CDC). Accessed: Oct. 20, 2023.

- [Online]. Available:  
[https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6022a1.htm?s\\_cid=mm6022a1\\_w](https://www.cdc.gov/mmwr/preview/mmwrhtml/mm6022a1.htm?s_cid=mm6022a1_w)
- [11] D. & I. (STEADI) Stopping Elderly Accidents, “Older Adult Falls,” 2018. Accessed: Oct. 15, 2023. [Online]. Available: [https://www.cdc.gov/steadi/pdf/STEADI\\_ClinicianFactSheet-a.pdf](https://www.cdc.gov/steadi/pdf/STEADI_ClinicianFactSheet-a.pdf)
- [12] C. Ding, H. Zhao, Y. Ma, H. Hong, and X. Zhu, “Soft Fall Detection With a Height-Tracking Method Based on MIMO Radar System,” *IEEE Geoscience and Remote Sensing Letters*, vol. 20, pp. 1–5, 2023, doi: 10.1109/LGRS.2023.3268654.
- [13] A. Géron, *Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow*, 3rd ed. Sebastopol: O’Reilly Media, Inc., 2023.
- [14] B. Wang, L. Guo, H. Zhang, and Y.-X. Guo, “A Millimetre-Wave Radar-Based Fall Detection Method Using Line Kernel Convolutional Neural Network,” *IEEE Sens J*, vol. 20, no. 22, pp. 13364–13370, Nov. 2020, doi: 10.1109/JSEN.2020.3006918.
- [15] “About Shower Curtain Liner Thickness: 5-8+ Gauges, Thin & Heavy Duty,” SlipX Solution’s. Accessed: Oct. 29, 2023. [Online]. Available: <https://slipxsolutions.com/shower-liner-thickness/>
- [16] S. G. Paal, S. Vick, and M. Kopsida, “Use Cases for Architects and Engineers,” *Infrastructure Computer Vision*, pp. 203–266, Jan. 2020, doi: 10.1016/B978-0-12-815503-5.00005-X.
- [17] P. M. Simpson, J. C. Bendall, A. Tiedemann, S. R. Lord, and J. C. T. Close, “Epidemiology of Emergency Medical Service Responses to Older People Who Have Fallen: A Prospective Cohort Study,” *Prehospital Emergency Care*, vol. 18, no. 2, pp. 185–194, Apr. 2014, doi: 10.3109/10903127.2013.856504.
- [18] A. Y. R, F. Adf, M. N. Adi, and F. Y. Suratman, “ANALISIS PERFORMANSI ALGORITMA SVM, CNN, DAN LSTM UNTUK PENGENALAN KEGIATAN MANUSIA DENGAN URAD FMCW RADAR,” 2023.
- [19] Z. A. Khan, H. Yar, and M. Nasir, “Raspberry Pi Based Elderly Fall Detection System Salihuddin,” 2020. [Online]. Available: <https://www.researchgate.net/publication/339043436>

- [20] C. I. Radar, A. Manager, and S. Rao, “The fundamentals of millimeter wave radar sensors The fundamentals of millimeter wave radar sensors 2,” 2020.
- [21] S. Fan, Y. Yu, M. Xu, and L. Zhao, “High-Precision External Parameter Calibration Method for Camera and Lidar Based on a Calibration Device,” *IEEE Access*, vol. 11, pp. 18750–18760, 2023, doi: 10.1109/ACCESS.2023.3247195.
- [22] M. Hou, S. Liu, J. Zhou, Y. Zhang, and Z. Feng, “Extreme Low-Resolution Activity Recognition Using a Super-Resolution-Oriented Generative Adversarial Network,” *Micromachines (Basel)*, vol. 12, no. 6, Jun. 2021, doi: 10.3390/MI12060670.
- [23] A. Y. Ramadhan, F. A. De Fitrah, and M. A. Nurhidayat, *Machine Learning Based Elderly Fall Detection System*. Bandung: Universitas Telkom, 2023.