

DAFTAR PUSTAKA

- [1] R. Cuevas-Trisan, “Balance Problems and Fall Risks in the Elderly,” Nov. 01, 2017, *W.B. Saunders.* doi: 10.1016/j.pmr.2017.06.006.
- [2] M. E. Tinetti and C. S. Williams, “The Effect of Falls and Fall Injuries on Functioning in Community-Dwelling Older Persons,” 1998. [Online]. Available: <http://biomedgerontology.oxfordjournals.org/>
- [3] World Health Organization, “Falls,” World Health Organization. Accessed: Nov. 04, 2024. [Online]. Available: <https://www.who.int/news-room/fact-sheets/detail/falls#:~:text=Falls%20are%20the%20second%20leading,greatest%20number%20of%20fatal%20falls>.
- [4] S. Ahn *et al.*, “Optimization of a pre-impact fall detection algorithm and development of hip protection *airbag* system,” *Sensors and Materials*, vol. 30, no. 8, pp. 1743–1752, 2018, doi: 10.18494/SAM.2018.1876.
- [5] S. Khan, “Classification and Decision-Theoretic Framework for Detecting and Reporting Unseen Falls,” 2016.
- [6] D. Nishiyama, S. Arita, D. Fukui, M. Yamanaka, and H. Yamada, “Accurate fall risk classification in elderly using one gait cycle data and *machine learning*,” *Clinical Biomechanics*, vol. 115, May 2024, doi: 10.1016/j.clinbiomech.2024.106262.
- [7] J. Tian, P. Mercier, and C. Paolini, “Ultra low-power, wearable, accelerated shallow-learning fall detection for elderly at-risk persons,” *Smart Health*, vol. 33, Sep. 2024, doi: 10.1016/j.smhl.2024.100498.
- [8] E. Rassekh and L. Snidaro, “Survey on data fusion approaches for fall-detection,” Feb. 01, 2025, *Elsevier B.V.* doi: 10.1016/j.inffus.2024.102696.
- [9] C. Tang, N. Zakaria, and W. S. Ruznan, “The development of anti-fall functional clothing for elderly,” Dec. 01, 2023, *KeAi Communications Co.* doi: 10.1016/j.glohj.2023.10.001.

- [10] N. Noury, P. Rumeau, A. K. Bourke, G. ÓLaighin, and J. E. Lundy, “A proposal for the classification and evaluation of fall detectors,” Dec. 2008. doi: 10.1016/j.irbm.2008.08.002.
- [11] R. Bibi, Z. Yan, M. Ilyas, M. Shaheen, S. N. Singh, and A. Zeb, “Assessment of fall-associated risk factors in the Muslim community-dwelling older adults of Peshawar, Khyber Pakhtunkhwa, Pakistan,” *BMC Geriatr*, vol. 23, no. 1, Dec. 2023, doi: 10.1186/s12877-023-04322-1.
- [12] H. Axer, M. Axer, H. Sauer, O. W. Witte, and G. Hagemann, “Falls and gait disorders in geriatric neurology,” May 2010. doi: 10.1016/j.clineuro.2009.12.015.
- [13] A. F. Ambrose, G. Paul, and J. M. Hausdorff, “Risk factors for falls among older adults: A review of the literature,” May 2013. doi: 10.1016/j.maturitas.2013.02.009.
- [14] D. Beck Jepsen *et al.*, “Predicting falls in older adults: an umbrella review of instruments assessing gait, balance, and functional mobility,” *BMC Geriatr*, vol. 22, no. 1, Dec. 2022, doi: 10.1186/s12877-022-03271-5.
- [15] E. Jaul and J. Barron, “Age-Related Diseases and Clinical and Public Health Implications for the 85 Years Old and Over Population,” Dec. 11, 2017, *Frontiers Media S.A.* doi: 10.3389/fpubh.2017.00335.
- [16] M. Basner *et al.*, “Auditory and non-auditory effects of noise on health,” 2014, *Elsevier B.V.* doi: 10.1016/S0140-6736(13)61613-X.
- [17] L. Wang and J. Kang, “Acoustic demands and influencing factors in facilities for the elderly,” *Applied Acoustics*, vol. 170, Dec. 2020, doi: 10.1016/j.apacoust.2020.107470.
- [18] WHO, “WORLD REPORT ON HEARING,” Mar. 2021. [Online]. Available: <https://youtu.be/EmXwAnP9puQ>
- [19] M. Nu Nu Htay *et al.*, “Risk factors of falls in elderly patients with visual impairment.”
- [20] C. Celletti *et al.*, “Focal muscle vibration as a possible intervention to prevent falls in elderly women: a pragmatic randomized controlled trial,” *Aging Clin Exp Res*, vol. 27, no. 6, pp. 857–863, Dec. 2015, doi: 10.1007/s40520-015-0356-x.

- [21] D. D. Dunlop, L. M. Manheim, M. W. Sohn, X. Liu, and R. W. Chang, “Incidence of functional limitation in older adults: The impact of gender, race, and chronic conditions,” *Arch Phys Med Rehabil*, vol. 83, no. 7, pp. 964–971, 2002, doi: 10.1053/apmr.2002.32817.
- [22] R. K. McHugh, V. R. Votaw, D. E. Sugarman, and S. F. Greenfield, “Sex and gender differences in substance use disorders,” Dec. 01, 2018, Elsevier Inc. doi: 10.1016/j.cpr.2017.10.012.
- [23] P. Teknologi, T. Kesehatan, and E. Klinik, “1 Review : 30-1 1-201 1 Review : 8-12-201 1 revisi.”
- [24] D. Winter, “Biomechanics and Motor Control of Human Movement, Fourth Edition,” Sep. 2009, doi: 10.1002/9780470549148.ch5.
- [25] S. Plagenhoef, F. Gaynor Evans, and T. Abdelnour, “Anatomical Data for Analyzing Human Motion,” 1983.
- [26] A. J. Ordoobadi, H. Dhanani, S. R. Tulebaev, A. Salim, Z. Cooper, and M. P. Jarman, “Risk of Dementia Diagnosis After Injurious Falls in Older Adults,” *JAMA Netw Open*, vol. 7, no. 9, p. e2436606, Sep. 2024, doi: 10.1001/jamanetworkopen.2024.36606.
- [27] A. L. Kehler-Dunlap, R. M. Bollinger, B. Holden, B. M. Ances, and S. Stark, “Examining the impact of a health report card on follow through with fall risk recommendations: an observational study,” *BMC Geriatr*, vol. 24, no. 1, Dec. 2024, doi: 10.1186/s12877-024-04686-y.
- [28] A. Sucerquia, J. D. López, and J. F. Vargas-Bonilla, “SisFall: A fall and movement dataset,” *Sensors (Switzerland)*, vol. 17, no. 1, Jan. 2017, doi: 10.3390/s17010198.
- [29] S. Patel, H. Park, P. Bonato, L. Chan, and M. Rodgers, “A review of wearable sensors and systems with application in rehabilitation,” 2012. doi: 10.1186/1743-0003-9-21.
- [30] C. C. Yang and Y. L. Hsu, “A review of accelerometry-based wearable motion detectors for physical activity monitoring,” Aug. 2010. doi: 10.3390/s100807772.

- [31] K. De Miguel, A. Brunete, M. Hernando, and E. Gambao, “Home camera-based fall detection system for the elderly,” *Sensors (Switzerland)*, vol. 17, no. 12, Dec. 2017, doi: 10.3390/s17122864.
- [32] W. Y. Kim, H. Il Seo, and D. H. Seo, “Nine-Axis IMU-based Extended inertial odometry neural network,” *Expert Syst Appl*, vol. 178, Sep. 2021, doi: 10.1016/j.eswa.2021.115075.
- [33] D. C. Viano, “History of *airbag* safety benefits and risks,” *Traffic Inj Prev*, vol. 25, no. 3, pp. 268–287, Apr. 2024, doi: 10.1080/15389588.2024.2315889.