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- [27] N. Bu and M. Uehara, "Heart Rate Variability Measurement in a Wearable Device using Low Sampling Rates," 2022 IEEE 4th Global Conference on Life Sciences and Technologies (LifeTech), Osaka, Japan, 2022, pp. 576-579.
- [28] X. Ding et al., "Wearable Sensing and Telehealth Technology with Potential Applications in the Coronavirus Pandemic," in *IEEE Reviews in Biomedical Engineering*, vol. 14, pp. 48-70, 2021, doi: 10.1109/RBME.2020.2992838.
- [29] Stavropoulos, T. G., Papastergiou, A., Mpaltadoros, L., Nikolopoulos, S., & Kompatsiaris, I. (2020). Iot wearable sensors and devices in elderly care: A literature review. In *Sensors (Switzerland)*. <https://doi.org/10.3390/s20102826>
- [30] Uddin, M. Z., Khaksar, W., & Torresen, J. (2018). Ambient sensors for elderly care and independent living: A survey. In *Sensors (Switzerland)*. <https://doi.org/10.3390/s18072027>
- [31] Varatharajan, R., Manogaran, G., Priyan, M. K., & Sundarasekar, R. (2018). Wearable sensor devices for early detection of Alzheimer's disease using dynamic time warping algorithm. *Cluster Computing*. <https://doi.org/10.1007/s10586-017-0977-2>
- [32] Vegesna, A., Tran, M., Angelaccio, M., & Arcona, S. (2017). Remote Patient Monitoring via Non-Invasive Digital Technologies: A Systematic Review. In *Telemedicine and e-Health*. <https://doi.org/10.1089/tmj.2016.0051>
- [33] Woodberry, E., Browne, G., Hodges, S., Watson, P., Kapur, N., & Woodberry, K. (2015). The use of a wearable camera improves autobiographical memory in patients with Alzheimer's disease. *Memory*. <https://doi.org/10.1080/09658211.2014.886703>
- [34] Zdravevski, E., Lameski, P., Trajkovik, V., Kulakov, A., Chorbev, I., Goleva, R., Pombo, N., & Garcia, N. (2017). Improving Activity Recognition Accuracy in Ambient-Assisted Living Systems by Automated Feature Engineering. *IEEE Access*. <https://doi.org/10.1109/ACCESS.2017.2684913>
- [35] Saied, I. M., & Arslan, T. (2019). Noninvasive wearable RF device towards monitoring brain atrophy and lateral ventricle enlargement. *IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology*, 4(1), 61-68.
- [36] Godfrey, A., Brodie, M., van Schooten, K., Nouredanesh, M., Stuart, S., & Robinson, L. (2019). Inertial wearables as pragmatic tools in dementia. *Maturitas*, 127, 12-17. <https://doi.org/10.1016/j.maturitas.2019.05.010>
- [37] Harrer, S., Shah, P., Antony, B., & Hu, J. (2019). Artificial Intelligence for Clinical Trial Design. *Trends in Pharmacological Sciences*, 40(8), 577-591. <https://doi.org/10.1016/j.tips.2019.05.005>
- [38] B. G. Rosa, S. Anastasova-Ivanova and G. Z. Yang, "A Low-powered and Wearable Device for Monitoring Sleep through Electrical, Chemical and Motion signals recorded over the head," 2019 IEEE Biomedical Circuits and Systems Conference (BioCAS), Nara, Japan, 2019, pp. 1-4, doi: 10.1109/BIOCAS.2019.8918971.
- [39] Stavropoulos, T. G., Papastergiou, A., Mpaltadoros, L., Nikolopoulos, S., & Kompatsiaris, I. (2020). IoT Wearable Sensors and Devices in Elderly Care: A Literature Review. *Sensors*, 20(10), 2826. <https://doi.org/10.3390/s20102826>
- [40] Ahmed, Q. A., & Al-Neami, A. Q. (2020, July). A smart biomedical-assisted system for Alzheimer patients. In *IOP Conference Series: Materials Science and Engineering (Vol. 881, No. 1, p. 012110)*. IOP Publishing.
- [41] Stavropoulos, T. G., Lazarou, I., Diaz, A., Gove, D., Georges, J., Manyakov, N. V., ... & RADAR-AD Consortium. (2021). Wearable devices for assessing function in Alzheimer's disease: a European public involvement activity about the features and preferences of patients and caregivers. *Frontiers in Aging Neuroscience*, 13, 643135.
- [42] Banerjee, A., Maji, D., Datta, R., Barman, S., Samanta, D., & Chattopadhyay, S. (2022). SHUBHCHINTAK: An efficient remote health monitoring approach for older adults. *Multimedia Tools and Applications*, 81(26), 37137-37163.
- [43] Sujith, A. V. L. N., Sajja, G. S., Mahalakshmi, V., Nuhmani, S., & Prasanalakshmi, B. (2022). Systematic review of smart health monitoring using deep learning and Artificial intelligence. *Neuroscience Informatics*, 2(3), 100028.
- [44] Zhao, Z., Chuah, J. H., Lai, K. W., Chow, C. O., Gochoo, M., Dhanalakshmi, S., ... & Wu, X. (2023). Conventional machine learning and deep learning in Alzheimer's disease diagnosis using neuroimaging: A review. *Frontiers in Computational Neuroscience*, 17, 10.
- [45] Vrahatis, A. G., Skolariki, K., Krokidis, M. G., Lazaros, K., Exarchos, T. P., & Vlamos, P. (2023). Revolutionising the Early Detection of Alzheimer's Disease through Non-Invasive Biomarkers: The Role of Artificial Intelligence and Deep Learning. *Sensors*, 23(9), 4184.