























- [12]. G. Singla et al., "Recognizing independent and joint activities among multiple residents in smart environments," *Journal of ambient intelligence and humanized computing*, vol. 1, no. 1, pp. 57-63, Mar. 2010, DOI: 10.1007/s12652-009-0007-1.
- [13]. D. Anguita et al., "A public domain dataset for Human Activity Recognition using smartphones," *21th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, ESANN 2013*. Bruges, Belgium, pp. 437-442, Apr. 2013
- [14]. R. Chavarriaga et al., "The Opportunity challenge: A benchmark database for on-body sensor-based activity recognition," *Pattern Recognition Letters*, vol. 34, no. 15, pp. 2033-2042, Nov. 2013, DOI: 10.1016/j.patrec.2012.12.014.
- [15]. O. Banos et al., "mHealthDroid: a novel framework for agile development of mobile health applications," *Pro-ceedings of the 6th International Work-conference on Ambient Assisted Living an Active Ageing (IWAAL 2014)*, Belfast, Northern Ireland, pp 91-98, Dec. 2014, DOI: 10.1007/978-3-319-13105-4\_14.
- [16]. S.K. Das et al., "Designing Smart Environments: A Paradigm Based on Learning and Prediction," In: Pal S.K., Bandyopadhyay S., Biswas S. (eds) *Pattern Recognition and Machine Intelligence. PReMI 2005. Lecture Notes in Computer Science*, Springer, Berlin, Heidelberg, vol. 3776, pp. 80-90, 2005, DOI: 10.1007/11590316\_11.
- [17]. Institute for Social Research - University of Michigan. USA. ICPSR Dataset. [Online]. Available: <https://www.icpsr.umich.edu/icpsrweb/content/about/>, Accessed on: Jul. 31, 2018.
- [18]. IRBS. International Review Boards [Online]. Available: <https://www.icpsr.umich.edu/icpsrweb/ICPSR/irb/index.jsp>, Accessed on: Jul. 31, 2018.
- [19]. N. Rodríguez et al., "A fuzzy ontology for semantic modelling and recognition of human behaviour," *Knowledge-Based Systems*, vol. 66, pp. 46-60, Aug. 2014, DOI: 10.1016/j.knosys.2014.04.016.
- [20]. F. Quesada et al., "Generation of a partitioned dataset with single, interleave and multioccupancy daily living activities," *International Conference on Ubiquitous Computing and Ambient Intelligence*, Springer, Cham, pp 60-71, 2015, DOI: 10.1007/978-3-319-26401-1\_6.
- [21]. D. Cook et al., "Collecting and disseminating smart home sensor data in the CASAS project," In: *Proceedings of the CHI Work-shop on Developing Shared Home Behaviour Datasets to Advance HCI and Ubiquitous Computing Research*, pp. 1–7, 2009.
- [22]. G. Singla et al., "Tracking activities in complex settings using smart environment technologies," *Int. J. Biosci. Psychiatry Technol. (IJBSPT)*, vol. 1, no. 1, pp. 25-35, Jan. 2009.
- [23]. UCI Machine Learning Repository. [Online]. Available: <https://archive.ics.uci.edu/ml/index.php>, Accessed on: Jul. 31, 2018.
- [24]. T. L. M. van Kasterenet al., "Activity recognition using semi-Markov models on real world smart home datasets," *Journal of Ambient Intelligence and Smart Environments*, vol. 2, no. 3, pp. 311–325, Jan. 2010, DOI: 10.3233/AIS-2010-0070.
- [25]. François Chollet et al. 2015. Keras. Retrieved from <https://keras.io>.
- [26]. T. Choudhury et al., "The mobile sensing platform: An embedded activity recognition system. *IEEE Perv. Comput.* 7, 2 (Apr. 2008), 32–41. <https://doi.org/10.1109/MPRV.2008.39>
- [27]. Junyoung Chung et al., 2014. Empirical evaluation of gated recurrent neural networks on sequence modeling. In *Workshop on Deep Learning (NIPS'14)*.
- [28]. Zhao et al., *MobiGesture: Mobility-aware hand gesture recognition for healthcare. Smart Health* 2018, 9–10, 129–143.
- [29]. A. Akbari et al., "Personalizing Activity Recognition Models Through Quantifying Different Types of Uncertainty Using Wearable Sensors," in *IEEE Transactions on Biomedical Engineering*, vol. 67, no. 9, pp. 2530-2541, Sept. 2020.
- [30]. Pratik Tarafdar et al, "Recognition of human activities for wellness management using a smartphone and a smart watch: A boosting approach," *Decision Support Systems*, Volume 140, 2021.
- [31]. Jessica Sena et al, "Human activity recognition based on smartphone and wearable sensors using multi scale DCNN ensemble," *Neuro-computing*, Volume 444, 2021, Pages 226-243.
- [32]. Henry Friday Nweke et al, "Deep learning algorithms for human activity recognition using mobile and wearable sensor networks: State of the art and research challenges," *Expert Systems with Applications*, Volume 105, 2018, Pages 233-261.
- [33]. Chaolei Han et al, "Human activity recognition using wearable sensors by heterogeneous convolutional neural networks," *Expert Systems with Applications*, Volume 198, 2022.
- [34]. Saurabh Gupta, "Deep learning based human activity recognition (HAR) using wearable sensor data," *International Journal of Information Management Data Insights*, Volume 1, Issue 2, 2021.
- [35]. Nandy et al, "C. Novel features for intensive human activity recognition based on wearable and smartphone sensors." *MicrosysTechnol* 26, 1889–1903 (2020).
- [36]. F. John Dian et al, "Wearables and the Internet of Things (IoT), Applications, Opportunities, and Challenges: A Survey," in *IEEE Access*, vol. 8, pp. 69200-69211, 2020, doi: 10.1109/ACCESS.2020.2986329.
- [37]. F. Demrozi et al, "Human Activity Recognition Using Inertial, Physiological and Environmental Sensors: A Comprehensive Survey," in *IEEE Access*, vol. 8, pp. 210816-210836, 2020, doi: 10.1109/ACCESS.2020.3037715.
- [38]. K. Xia et al, "LSTM-CNN Architecture for Human Activity Recognition," in *IEEE Access*, vol. 8, pp. 56855-56866, 2020, doi: 10.1109/ACCESS.2020.2982225.
- [39]. Dua, et al, M.L.S. (2022). *A Survey on Human Activity Recognition Using Deep Learning Techniques and Wearable Sensor Data*, vol 1762. Springer, Cham. [https://doi.org/10.1007/978-3-031-24352-3\\_5](https://doi.org/10.1007/978-3-031-24352-3_5).
- [40]. Liu et al, (2022). *An Overview of Human Activity Recognition Using Wearable Sensors: Healthcare and Artificial Intelligence*. In: Tekinerdogan, B., Wang, Y., Zhang, L.J. (eds) *Internet of Things – ICIOT 2021*. ICIOT 2021. *Lecture Notes in Computer Science* (), vol 12993, Springer, Cham.
- [41]. Uddin et al, "Human activity recognition using wearable sensors, discriminant analysis, and long short-term memory-based neural structured learning." *Sci Rep* 11, 16455 (2021).
- [42]. Iqbal A, et al. "Wearable Internet-of-Things platform for human activity recognition and health care." *International Journal of Distributed Sensor Networks*. 2020;16(6).
- [43]. *Transparent Reporting of Systematic Reviews and Meta-Analyses*. Available online: <http://www.prisma-statement.org/> (accessed on 10 February 2022).
- [44]. Kiran, et al., "Multi-Layered Deep Learning Features Fusion for Human Action Recognition." *Comput. Mater. Contin.* 2021, 69, 4061–4075.
- [45]. M. E. Grams et al., "Validation of CKD and related conditions in existing datasets: A Systematic Review," *American Journal of Kidney Diseases*, vol. 57, no. 1, pp. 44–54, Jan. 2011, DOI: 10.1053/j.ajkd.2010.05.013.

- [46]. C. Nugent et al., "An initiative for the creation of open datasets within pervasive healthcare," In Pervasive health Conference 2016 - Future of Pervasive Health Workshop 2016, Mexico, Jan 2016, DOI: 10.4108/eai.16-5-2016.2263830.
- [47]. L N Vankateswaran et al. FingerPing: Recognizing Fine-grained Hand Poses Using Active Acoustic On-body Sensing. In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI'18), Montreal, QC, Canada, 21–26 April 2018; ACM: New York, NY, USA, 2018;pp. 437:1–437:10.
- [48]. Xia et al., A wearable haptic device to avoid occlusions in hand tracking. In Proceedings of the 2016 IEEE Haptics Symposium (HAPTICS), Philadelphia, PA, USA, 8–11 April 2016;pp. 134–139.
- [49]. G Single et al., Development of a wearable HCI controller throughs EMG& IMU sensor fusion. In Proceedings of the2016 13th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI), Sofitel Xian on Renmin Square, Xi'an,China, 19–22 August 2016; pp. 83–87.
- [50]. D Anguita et al., Monitoring eating habits using a piezoelectric sensor-based necklace. *Comput. Biol. Med.* 2015, 58, 46–55.
- [51]. R Chavarriga et al., A Multi-Sensor Necklace for Detecting Eating Activities in Free-Living Conditions. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 2020, 4, 1–26.
- [52]. O Banos et al., Continuously Tracking Full Facial Expressions on Neck-Mounted Wearable's. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 2021, 5, 1–31.
- [53]. Rahman, S et al., Performance analysis of boosting classifiers in recognizing activities of daily living. *International journal of environmental research and public health*, 2020, 17(3), 1082.