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- [15] P. Lukowicz, "Wearable computing and artificial intelligence for healthcare applications." *Artificial intelligence in medicine*, vol. 42, no. 2, p. 95, 2008.
- [16] H. Watz, F. Pitta, C. L. Rochester, J. Garcia-Aymerich, R. ZuWallack, T. Troosters, A. W. Vaes, M. A. Puhan, M. Jehn, M. I. Polkey *et al.*, "An official european respiratory society statement on physical activity in copd," *European Respiratory Journal*, vol. 44, no. 6, pp. 1521–1537, 2014.
- [17] E. Gimeno-Santos, A. Frei, C. Steurer-Stey, J. de Batlle, R. A. Rabinovich, Y. Raste, N. S. Hopkinson, M. I. Polkey, H. Van Remoortel, T. Troosters *et al.*, "Determinants and outcomes of physical activity in patients with copd: a systematic review," *Thorax*, vol. 69, no. 8, pp. 731–739, 2014.
- [18] O. I. Franko and T. F. Tirrell, "Smartphone app use among medical providers in acgme training programs," *Journal of medical systems*, vol. 36, no. 5, pp. 3135–3139, 2012.
- [19] D. Bannach, P. Lukowicz, and O. Amft, "Rapid prototyping of activity recognition applications," *Pervasive Computing, IEEE*, vol. 7, no. 2, pp. 22–31, 2008.
- [20] J. Lockman, R. S. Fisher, and D. M. Olson, "Detection of seizure-like movements using a wrist accelerometer," *Epilepsy & Behavior*, vol. 20, no. 4, pp. 638–641, 2011.
- [21] S. Nasehi and H. Pourghassem, "Real-time seizure detection based on eeg and ecg fused features using gabor functions," in *Intelligent Computation and Bio-Medical Instrumentation (ICBMI), 2011 International Conference on*. IEEE, 2011, pp. 204–207.
- [22] D. Huggins-Daines, M. Kumar, A. Chan, A. W. Black, M. Ravishankar, and A. I. Rudnick, "Pocketsphinx: A free, real-time continuous speech recognition system for hand-held devices," in *Acoustics, Speech and Signal Processing, 2006. ICASSP 2006 Proceedings. 2006 IEEE International Conference on*, vol. 1. IEEE, 2006, pp. 185–188.
- [23] F. X. Lin, A. Rahmati, and L. Zhong, "Dandelion: a framework for transparently programming phone-centered wireless body sensor applications for health," in *Wireless Health 2010*. ACM, 2010, pp. 74–83.
- [24] N. Aharony, W. Pan, C. Ip, I. Khayal, and A. Pentland, "Social fmri: Investigating and shaping social mechanisms in the real world," *Pervasive and Mobile Computing*, vol. 7, no. 6, pp. 643–659, 2011.
- [25] S. J. Marshall and E. Ramirez, "Reducing sedentary behavior a new paradigm in physical activity promotion," *American Journal of Lifestyle Medicine*, vol. 5, no. 6, pp. 518–530, 2011.
- [26] B. Celli, W. MacNee, A. Agusti, A. Anzueto, B. Berg, A. Buist, P. Calverley, N. Chavannes, T. Dillard, B. Fahy *et al.*, "Standards for the diagnosis and treatment of patients with copd: a summary of the ats/ers position paper," *European Respiratory Journal*, vol. 23, no. 6, pp. 932–946, 2004.
- [27] M. A. Spruit, T. Troosters, J. C. Trappenburg, M. Decramer, and R. Gosselink, "Exercise training during rehabilitation of patients with copd: a current perspective," *Patient education and counseling*, vol. 52, no. 3, pp. 243–248, 2004.
- [28] M. Kranz, A. Möller, N. Hammerla, S. Diewald, T. Plötz, P. Olivier, and L. Roalter, "The mobile fitness coach: Towards individualized skill assessment using personalized mobile devices," *Pervasive and Mobile Computing*, vol. 9, no. 2, pp. 203–215, 2013.
- [29] T. C. Havens, G. L. Alexander, C. Abbott, J. M. Keller, M. Skubic, and M. Rantz, "Contour tracking of human exercises," in *Computational Intelligence for Visual Intelligence, 2009. CIVI'09. IEEE Workshop on*. IEEE, 2009, pp. 22–28.