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PUBLICATIONS:

1. Camila Shirota, Jelka Jansa, Javier Diaz, Sivakumar Balasubramanian, Stefano Mazzoleni, N Alberto Borghese, Alejandro Melendez-Calderon ,“On the assessment of coordination between upper extremities: towards a common language between rehabilitation engineers, clinicians and neuroscientists”, published by Journal of neuroengineering and rehabilitation ,Vol.13,Issue 1, pp:80, (2016).
2. “Quantification of the relative arm-use in patients with hemiparesis using inertial measurement units” SKM Varadhan, Sivakumar Balasubramanian , published by medRxiv (2020)
3. “A Plug-and-Train Robotic Kit (PLUTO) For Hand Rehabilitation: Pilot Usability Study” Aravind Nehrujee, Sivakumar Balasubramanian published by 8th IEEE RAS/EMBS International Conference for Biomedical Robotics and Biomechatronics (BioRob) pp:100-105 ,(2020)
4. “A self-aligning end-effector robot for individual joint training of the human arm”, S Balasubramanian, S Guguloth, JS Mohammed, S Sujatha, published by bioRxiv, (2020)
5. “Estimating Movement Smoothness from Inertial Measurement Units” A Melendez-Calderon, C Shirota, S Balasubramanian ,published by bioRxiv (2020)
6. “Technology-aided assessments of sensorimotor function: current use, barriers and future directions in the view of different stakeholders”, C Shirota, S Balasubramanian, A Melendez-Calderon Journal of neuroengineering and rehabilitation Vol 16 ,Issue 1, pp:1-17 (2019)
7. “A Smartphone-based gaming system for vestibular rehabilitation: A usability study” A Nehrujee, L Vasanthan, A Lepcha, S Balasubramanian , Journal of Vestibular Research, Vol. 29 (2-3), pp:147-160 (2019)
8. S Balasubramanian, E Garcia-Cossio, N Birbaumer , “Is EMG a viable alternative to BCI for detecting movement intention in severe stroke?”, Published in IEEE Transactions on Biomedical Engineering ,Vol.65 , Issue 12 , pp: 2790-2797, (2018)
9. “Red cell indexes made easy using an interactive animation: do students and their scores concur?”, U Kachroo, E Vinod, S Balasubramanian, N Prince , published by Advances in physiology education Vol.42 (1), pp:50-55 (2018)

10. "SITAR: a system for independent task-oriented assessment and rehabilitation", Asif Hussain, Sivakumar Balasubramanian , Journal of rehabilitation and assistive technologies engineering Vol: 4,2017
11. "Validity of a sensor-based table-top platform to measure upper limb function", M Mace, S Guy, A Hussain, ED Playford, N Ward, S Balasubramanian, International Conference on Rehabilitation Robotics (ICORR), pp:652-657 (2017)
12. Asif Hussain, Sivakumar Balasubramanian, "Investigation of isometric strength and control of the upper extremities in multiple sclerosis", Journal of rehabilitation and assistive technologies engineering Vol: 3, (2016)
13. Cristina Rodriguez-de-Pablo, Sivakumar Balasubramanian, "Validating ArmAssist Assessment as outcome measure in upper-limb post-stroke telerehabilitation" published in 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), 2015
14. "Quantitative assessment of motor deficit with an intelligent key object: a pilot study" A Hussain, W Dailey, S Balasubramanian, N Jarrassé, published by IEEE International Conference on Rehabilitation Robotics (ICORR), pp:247-252 (2015).