

## COMETA list of relevant papers

- Rabuffetti, M., Scalera, G. M., & Ferrarin, M. (2019). Effects of gait strategy and speed on regularity of locomotion assessed in healthy subjects using a multi-sensor method. *Sensors (Switzerland)*, *19*(3). <https://doi.org/10.3390/s19030513>
- Janssen, M. M. H. P., Harlaar, J., Koopman, B., & de Groot, I. J. M. (2019). Unraveling upper extremity performance in Duchenne muscular dystrophy: A biophysical model. *Neuromuscular Disorders*, *29*(5), 368–375. <https://doi.org/10.1016/j.nmd.2019.03.006>
- Vergnano, A., Pegreffi, F., & Leali, F. (2019). Correlation of driver head posture and trapezius muscle activity as comfort assessment of car seat. *Advances in Intelligent Systems and Computing*, *903*, 241–247. [https://doi.org/10.1007/978-3-030-11051-2\\_37](https://doi.org/10.1007/978-3-030-11051-2_37)
- Pejhan, S., Denroche, S. K., Frew, G. J., & Acker, S. M. (2019). Effects of Knee Savers on the quadriceps muscle activation across deep knee bending postures. *Applied Ergonomics*, *80*, 193–199. <https://doi.org/10.1016/j.apergo.2019.05.016>
- Schmitz, J., Bartoli, E., Maffongelli, L., Fadiga, L., Sebastian-Galles, N., & D'Ausilio, A. (2019). Motor cortex compensates for lack of sensory and motor experience during auditory speech perception. *Neuropsychologia*, *128*, 290–296. <https://doi.org/10.1016/j.neuropsychologia.2018.01.006>
- Koopman, A. S., Kingma, I., Faber, G. S., de Looze, M. P., & van Dieën, J. H. (2019). Effects of a passive exoskeleton on the mechanical loading of the low back in static holding tasks. *Journal of Biomechanics*, *83*, 97–103. <https://doi.org/10.1016/j.jbiomech.2018.11.033>
- Tennant, L. M., Chong, H. C., & Acker, S. M. (2018). The effects of a simulated occupational kneeling exposure on squat mechanics and knee joint load during gait. *Ergonomics*, *61*(6), 839–852. <https://doi.org/10.1080/00140139.2017.1411529>
- Phinyomark, A., & Scheme, E. (2018). EMG Pattern Recognition in the Era of Big Data and Deep Learning. *Big Data and Cognitive Computing*, *2*(3), 21. <https://doi.org/10.3390/bdcc2030021>
- Lotti, N., & Sanguineti, V. (2018). Estimation of Muscle Torques from EMG and Kinematics during Planar Arm Movements. *Proceedings of the IEEE RAS and EMBS International Conference on Biomedical Robotics and Biomechatronics, 2018-August*, 948–953. <https://doi.org/10.1109/BIOROB.2018.8488131>
- Scalona, E., Taborri, J., Del Prete, Z., Palermo, E., & Rossi, S. (2018). EMG factorization during walking: Does digital filtering influence the accuracy in the evaluation of the muscle synergy number? *MeMeA 2018 - 2018 IEEE International Symposium on Medical*

*Measurements and Applications, Proceedings.*  
<https://doi.org/10.1109/MeMeA.2018.8438760>

- Kingston, D. C., & Acker, S. M. (2018). Representing fine-wire EMG with surface EMG in three thigh muscles during high knee flexion movements. *Journal of Electromyography and Kinesiology*, *43*, 55–61. <https://doi.org/10.1016/j.jelekin.2018.08.006>
- Tagliapietra, L., Modenese, L., Ceseracciu, E., Mazzà, C., & Reggiani, M. (2018). Validation of a model-based inverse kinematics approach based on wearable inertial sensors. *Computer Methods in Biomechanics and Biomedical Engineering*, *21*(16), 834–844. <https://doi.org/10.1080/10255842.2018.1522532>
- Panbianco, G. P., Stagni, R., & Fantozzi, S. (2017). Comparative analysis of 12 methods using wearable inertial sensors for gait parameters estimation during walking. *Gait & Posture*, *57*, 21. <https://doi.org/10.1016/j.gaitpost.2017.07.075>
- Scalera, G. M., Rabuffetti, M., Marzegan, A., Frigo, C., & Ferrarin, M. (2017). Regularity assessment of cyclic human movements: An innovative method based on wearable sensors. *2017 E-Health and Bioengineering Conference, EHB 2017*, 454–457. <https://doi.org/10.1109/EHB.2017.7995459>