

Stefano Cardarelli

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

197
citations

1307366

7
h-index

1125617

13
g-index

33
all docs

33
docs citations

33
times ranked

205
citing authors

#	ARTICLE	IF	CITATIONS
1	Balance assessment during squatting exercise: A comparison between laboratory grade force plate and a commercial, low-cost device. <i>Journal of Biomechanics</i> , 2018, 71, 264-270.	0.9	25
2	Single IMU Displacement and Orientation Estimation of Human Center of Mass: A Magnetometer-Free Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 5629-5639.	2.4	24
3	EMG-Based Characterization of Walking Asymmetry in Children with Mild Hemiplegic Cerebral Palsy. <i>Biosensors</i> , 2019, 9, 82.	2.3	21
4	On the Use of Fuzzy and Permutation Entropy in Hand Gesture Characterization from EMG Signals: Parameters Selection and Comparison. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7144.	1.3	18
5	Improving EMG Signal Change Point Detection for Low SNR by Using Extended Teager-Kaiser Energy Operator. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 661-669.	2.1	17
6	Validity of the Nintendo Wii Balance Board for the Assessment of Balance Measures in the Functional Reach Test. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1400-1406.	2.7	16
7	A MATLAB-based graphical user interface for the identification of muscular activations from surface electromyography signals. , 2016, 2016, 3646-3649.		10
8	A Novel Open-Source Simulator Of Electric Vehicles in a Demand-Side Management Scenario. <i>Energies</i> , 2021, 14, 1558.	1.6	8
9	Assessment of patient functional performance in different knee arthroplasty designs during unconstrained squat. <i>Muscles, Ligaments and Tendons Journal</i> , 2017, 7, 514.	0.1	6
10	Center of Pressure based Assessment of Balance Responses to Repeated Perturbations of Upright Stance. <i>IFMBE Proceedings</i> , 2018, , 262-265.	0.2	5
11	Position Estimation of an IMU Placed on Pelvis Through Meta-heuristically Optimised WFLC. <i>IFMBE Proceedings</i> , 2019, , 659-664.	0.2	5
12	Complexity Measures of Postural Control in Type-2 Diabetic Subjects. , 2019, 2019, 3527-3530.		4
13	Inertial Sensor Based Estimation of the Center of Pressure During Unperturbed Upright Stance. , 2019, , .		4
14	Role of the Visual Feedback on Balance Responses to Upright Stance Perturbations. <i>IFMBE Proceedings</i> , 2019, , 685-689.	0.2	4
15	A Time-Frequency Approach for the Assessment of Dynamic Muscle Co-contractions. <i>IFMBE Proceedings</i> , 2019, , 223-226.	0.2	4
16	An interactive tool for the analysis of muscular recruitment during walking task. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019, 7, 175-185.	1.3	3
17	Magnetometer-Free Sensor Fusion Applied to Pedestrian Tracking: A Feasibility Study. , 2019, , .		3
18	Accuracy Evaluation of Force Measurement Through the Wii Balance Board During Squat and Functional Reach Tests. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	UKF Magnetometer-Free Sensor Fusion for Pelvis Pose Estimation During Treadmill Walking. , 2019, 2019, 1213-1216.		2
20	Description of Postural Strategies through a Variable Structure Control. , 2019, 2019, 4113-4116.		2
21	Kinetic data simultaneously acquired from dynamometric force plate and Nintendo Wii Balance Board during human static posture trials. Data in Brief, 2020, 28, 105028.	0.5	2
22	Increased Co-contraction Activity During Push-Off Phase of Walking in Healthy Women. Irbm, 2021, 42, 48-54.	3.7	2
23	Evaluation of a New Wearable Technology for Kinematic Analysis During Perturbed Posture. , 2019, , .		1
24	Ankle Muscles Co-Activation Patterns During Normal Gait: An Amplitude Evaluation. IFMBE Proceedings, 2018, , 426-429.	0.2	1
25	Role of the Ground Reaction Force Components in Balance Assessment during Squatting Exercise performed by the Wii Balance Board. , 2019, , .		0
26	Fractal Analysis of Motor Control in Knee Arthroplasty Patients. , 2019, 2019, 3159-3162.		0
27	Modeling Perturbed Posture Through An Adaptive Sliding Mode Approach. , 2019, 2019, 5335-5338.		0
28	Gait Asymmetry in Winters Group I Hemiplegic Children: Role of Tibialis Anterior. IFMBE Proceedings, 2019, , 681-684.	0.2	0
29	Are Extensor Digitorum Brevis and Gastrocnemius Working Together? Surface EMG Analysis in Healthy Children. IFMBE Proceedings, 2019, , 219-222.	0.2	0
30	Muscular Co-contraction Detection: A Wavelet Coherence Approach. IFMBE Proceedings, 2020, , 54-61.	0.2	0
31	Co-activation of Knee Muscles in Female vs. Male Adults. IFMBE Proceedings, 2020, , 167-173.	0.2	0