Alessandro Scano

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3303903/publications.pdf

Version: 2024-02-01

34 papers	660 citations	567281 15 h-index	610901 24 g-index
36 all docs	36 docs citations	36 times ranked	721 citing authors

#	Article	IF	Citations
1	An Experimental Evaluation of the Proto-MATE: A Novel Ergonomic Upper-Limb Exoskeleton to Reduce Workers' Physical Strain. IEEE Robotics and Automation Magazine, 2020, 27, 54-65.	2.0	65
2	Quantitative EEG for Predicting Upper Limb Motor Recovery in Chronic Stroke Robot-Assisted Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1058-1067.	4.9	55
3	A Comprehensive Spatial Mapping of Muscle Synergies in Highly Variable Upper-Limb Movements of Healthy Subjects. Frontiers in Physiology, 2019, 10, 1231.	2.8	54
4	Kinematic synergies of hand grasps: a comprehensive study on a large publicly available dataset. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 63.	4.6	52
5	Kinect V2 Performance Assessment in Daily-Life Gestures: Cohort Study on Healthy Subjects for a Reference Database for Automated Instrumental Evaluations on Neurological Patients. Applied Bionics and Biomechanics, 2017, 2017, 1-16.	1.1	48
6	Muscle Synergies-Based Characterization and Clustering of Poststroke Patients in Reaching Movements. Frontiers in Bioengineering and Biotechnology, 2017, 5, 62.	4.1	28
7	Kinect V2 implementation and testing of the reaching performance scale for motor evaluation of patients with neurological impairment. Medical Engineering and Physics, 2018, 56, 54-58.	1.7	28
8	Low-Cost Tracking Systems Allow Fine Biomechanical Evaluation of Upper-Limb Daily-Life Gestures in Healthy People and Post-Stroke Patients. Sensors, 2019, 19, 1224.	3.8	28
9	Variability of Muscle Synergies in Hand Grasps: Analysis of Intra- and Inter-Session Data. Sensors, 2020, 20, 4297.	3.8	28
10	A Multiparameter Approach to Evaluate Post-Stroke Patients: An Application on Robotic Rehabilitation. Applied Sciences (Switzerland), 2018, 8, 2248.	2.5	24
11	Combined Use of EMG and EEG Techniques for Neuromotor Assessment in Rehabilitative Applications: A Systematic Review. Sensors, 2021, 21, 7014.	3.8	24
12	Mixed matrix factorization: a novel algorithm for the extraction of kinematic-muscular synergies. Journal of Neurophysiology, 2022, 127, 529-547.	1.8	24
13	Muscle Synergy Analysis of a Hand-Grasp Dataset: A Limited Subset of Motor Modules May Underlie a Large Variety of Grasps. Frontiers in Neurorobotics, 2018, 12, 57.	2.8	22
14	Intra-Subject and Inter-Subject Movement Variability Quantified with Muscle Synergies in Upper-Limb Reaching Movements. Biomimetics, 2021, 6, 63.	3.3	22
15	NIRS-EMG for Clinical Applications: A Systematic Review. Applied Sciences (Switzerland), 2019, 9, 2952.	2.5	20
16	Analysis of Upper-Limb and Trunk Kinematic Variability: Accuracy and Reliability of an RGB-D Sensor. Multimodal Technologies and Interaction, 2020, 4, 14.	2.5	19
17	Detailed characterization of physiological EMG activations and directional tuning of upper-limb and trunk muscles in point-to-point reaching movements. Current Research in Physiology, 2021, 4, 60-72.	1.7	17
18	Predicting Functional Recovery in Chronic Stroke Rehabilitation Using Event-Related Desynchronization-Synchronization during Robot-Assisted Movement. BioMed Research International, 2016, 2016, 1-11.	1.9	15

#	Article	IF	Citations
19	Robotic Assistance for Upper Limbs May Induce Slight Changes in Motor Modules Compared With Free Movements in Stroke Survivors: A Cluster-Based Muscle Synergy Analysis. Frontiers in Human Neuroscience, 2018, 12, 290.	2.0	14
20	Kinect One-based biomechanical assessment of upper-limb performance compared to clinical scales in post-stroke patients. , 2015, 2015, 5720-3.		10
21	Using robot fully assisted functional movements in upper-limb rehabilitation of chronic stroke patients: preliminary results. European Journal of Physical and Rehabilitation Medicine, 2017, 53, 390-399.	2.2	10
22	Static and dynamic characterization of the LIGHTarm exoskeleton for rehabilitation. , 2015, , .		8
23	A human-driven control architecture for promoting good mental health in collaborative robot scenarios. , 2021, , .		7
24	Mother-Infant Interaction Kinect Analysis (MIIKA): An automatic kinematic-based methodology for the investigation of interpersonal distance during early exchanges. , 2021, 63, 101567.		6
25	Questioning Domain Adaptation in Myoelectric Hand Prostheses Control: An Inter- and Intra-Subject Study. Sensors, 2021, 21, 7500.	3.8	6
26	Assessing User Transparency with Muscle Synergies during Exoskeleton-Assisted Movements: A Pilot Study on the LIGHTarm Device for Neurorehabilitation. Applied Bionics and Biomechanics, 2018, 2018, 1-10.	1.1	5
27	What Children with Neuromotor Disabilities Need to Play with Technological Games. Applied Sciences (Switzerland), 2021, 11, 9886.	2.5	5
28	A Kinect-Based Biomechanical Assessment of Neurological Patients' Motor Performances for Domestic Rehabilitation. Advances in Medical Technologies and Clinical Practice Book Series, 2016, , 252-279.	0.3	4
29	Optimal Biomechanical Performance in Upper-Limb Gestures Depends on Velocity and Carried Load. Biology, 2022, 11, 391.	2.8	3
30	DUALarm: An open-source and 3D-printable device for upper limb neurorehabilitation. Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831774998.	0.9	2
31	Whole-Body Adaptive Functional Electrical Stimulation Kinesitherapy Can Promote the Restoring of Physiological Muscle Synergies for Neurological Patients. Sensors, 2022, 22, 1443.	3.8	2
32	Evaluation of Methods for the Extraction of Spatial Muscle Synergies. Frontiers in Neuroscience, 2022, 16, .	2.8	2
33	The â€œArmâ€•Line of Devices for Neurological Rehabilitation. Advances in Computational Intelligence and Robotics Book Series, 2018, , 161-190.	0.4	0
34	The â€œArmâ€•Line of Devices for Neurological Rehabilitation. , 2020, , 394-423.		0