

Giovanni D'Addio

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,346
citations

471509

17
h-index

454955

30
g-index

98
all docs

98
docs citations

98
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Indices of Heart Rate Variability in Chronic Heart Failure Patients: Redundancy and Comparative Clinical Value. <i>Journal of Cardiovascular Electrophysiology</i> , 2007, 18, 425-433.	1.7	121
2	An integrated approach based on uniform quantization for the evaluation of complexity of short-term heart period variability: Application to 24h Holter recordings in healthy and heart failure humans. <i>Chaos</i> , 2007, 17, 015117.	2.5	118
3	Dietary protein intake in sarcopenic obese older women. <i>Clinical Interventions in Aging</i> , 2016, 11, 133.	2.9	63
4	Assessment of cardiovascular regulation through irreversibility analysis of heart period variability: a 24 hours Holter study in healthy and chronic heart failure populations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1359-1375.	3.4	57
5	Using gait analysis parameters to classify Parkinsonism: A data mining approach. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 180, 105033.	4.7	54
6	Machine learning to predict mortality after rehabilitation among patients with severe stroke. <i>Scientific Reports</i> , 2020, 10, 20127.	3.3	48
7	A Piezoresistive Array Armband With Reduced Number of Sensors for Hand Gesture Recognition. <i>Frontiers in Neurorobotics</i> , 2019, 13, 114.	2.8	48
8	Work-Related Risk Assessment According to the Revised NIOSH Lifting Equation: A Preliminary Study Using a Wearable Inertial Sensor and Machine Learning. <i>Sensors</i> , 2021, 21, 2593.	3.8	35
9	Symbolic dynamic and frequency analysis in foetal monitoring. , 2014, , .		34
10	Agreement between Opal and G-Walk Wearable Inertial Systems in Gait Analysis on Normal and Pathological Subjects. , 2019, 2019, 3286-3289.		31
11	Benchmarking between two wearable inertial systems for gait analysis based on a different sensor placement using several statistical approaches. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 173, 108642.	5.0	31
12	Design and Validation of an E-Textile-Based Wearable Sock for Remote Gait and Postural Assessment. <i>Sensors</i> , 2020, 20, 6691.	3.8	30
13	Positive impact of short-term gait rehabilitation in Parkinson patients: a combined approach based on statistics and machine learning. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 6995-7009.	1.9	28
14	Heart rate variability and drawing impairment in hypoxemic COPD. <i>Brain and Cognition</i> , 2009, 70, 163-170.	1.8	26
15	Efficacy of Machine Learning in Predicting the Kind of Delivery by Cardiotocography. <i>IFMBE Proceedings</i> , 2020, , 793-799.	0.3	25
16	Machine learning models for the prediction of acuity and variability of eye-positioning using features extracted from oculography. <i>Health and Technology</i> , 2020, 10, 961-968.	3.6	21
17	Feasibility of Machine Learning in Predicting Features Related to Congenital Nystagmus. <i>IFMBE Proceedings</i> , 2020, , 907-913.	0.3	21
18	In-Time Prognosis Based on Swarm Intelligence for Home-Care Monitoring: A Case Study on Pulmonary Disease. <i>IEEE Sensors Journal</i> , 2012, 12, 692-698.	4.7	20

#	ARTICLE	IF	CITATIONS
19	Machine learning can detect the presence of Mild cognitive impairment in patients affected by Parkinson's Disease. , 2020, , .		20
20	Classifying Different Stages of Parkinson's Disease Through Random Forests. IFMBE Proceedings, 2020, , 1155-1162.	0.3	20
21	The effects of the vibratory stimulation of the neck muscles for the evaluation of stepping performance in Parkinson's Disease. , 2015, , .		19
22	Comparison between clinical and instrumental assessing using Wii Fit system on balance control. , 2014, , .		18
23	New posturographic assessment by means of novel e-textile and wireless socks device. , 2016, , .		17
24	A low-cost force sensor-based posturographic plate for home care telerehabilitation exergaming. Measurement: Journal of the International Measurement Confederation, 2014, 51, 400-410.	5.0	16
25	Rehabilitation Outcome in Patients undergone Hip or Knee Replacement Surgery using Inertial Technology for Gait Analysis. , 2020, , .		16
26	Gait analysis may distinguish progressive supranuclear palsy and Parkinson disease since the earliest stages. Scientific Reports, 2021, 11, 9297.	3.3	16
27	Extracting Features from Poincaré Plots to Distinguish Congestive Heart Failure Patients According to NYHA Classes. Bioengineering, 2021, 8, 138.	3.5	16
28	A novel approach to estimate the upper limb reaching movement in three-dimensional space. Informatics in Medicine Unlocked, 2019, 15, 100155.	3.4	15
29	Development of a Prototype E-Textile Sock*. , 2019, 2019, 17498-1752.		15
30	Evaluation of Grip Force and Energy Efficiency of the "Federica" Hand. Machines, 2021, 9, 25.	2.2	15
31	Symbolic analysis of 24h holter heart period variability series: comparison between normal and heart failure patients. , 2005, , .		14
32	Clinical correlates of non-linear indices of heart rate variability in chronic heart failure patients. Biomedizinische Technik, 2006, 51, 220-223.	0.8	14
33	Kinematic and EMG patterns evaluation of upper arm reaching movements. , 2012, , .		14
34	Comparison of measured and predicted reaching movements with a robotic rehabilitation device. , 2014, , .		14
35	Backpack Influence on Kinematic Parameters related to Timed Up and Go (TUG) Test in School Children. , 2020, , .		14
36	Kinematics patterns of upper arm reaching movement in robot-mediated therapy. , 2011, , .		13

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37	Submovements composition and quality assessment of reaching movements in subjects with Parkinson's Disease. , 2015, , .		12
38	Bidimensional and Tridimensional Poincaré Maps in Cardiology: A Multiclass Machine Learning Study. Electronics (Switzerland), 2022, 11, 448.	3.1	12
39	Experimental Development and Validation of an E-Textile Sock Prototype. , 2020, , .		11
40	Repeatability of Spatio-Temporal Gait Measurements in Parkinson's Disease. , 2020, , .		11
41	Bioengineering activities in proprioceptive and robotic rehabilitation at Salvatore Maugeri Foundation. , 2015, , .		10
42	Relationships of kinematics indexes with amplitude and velocity of upper arm reaching movement. , 2013, , .		9
43	Outliers Detection and Processing in CTG Monitoring. IFMBE Proceedings, 2014, , 651-654.	0.3	9
44	Kinematic Indexes' Reproducibility of Horizontal Reaching Movements. IFMBE Proceedings, 2014, , 81-84.	0.3	9
45	Potential Biomechanical Overload on Skeletal Muscle Structures in Students During Walk with Backpack. IFMBE Proceedings, 2020, , 262-266.	0.3	8
46	Influence of the Backpack on School Children's Gait: A Statistical and Machine Learning Approach. IFMBE Proceedings, 2021, , 682-688.	0.3	8
47	Individual identification using electrocardiogram morphology. , 2013, , .		7
48	Symbolic dynamics in cardiocographic monitoring. , 2013, , .		7
49	Efficacy of the Regent Suit-based rehabilitation on gait EMG patterns in hemiparetic subjects: a pilot study. European Journal of Physical and Rehabilitation Medicine, 2018, 54, 705-716.	2.2	7
50	Phenomenological models of NaV1.5. A side by side, procedural, hands-on comparison between Hodgkin-Huxley and kinetic formalisms. Scientific Reports, 2019, 9, 17493.	3.3	7
51	Classifying patients affected by Parkinson's disease into freezers or non-freezers through machine learning. , 2020, , .		7
52	Design and validation of an e-textile-based wearable system for remote health monitoring. Acta IMEKO (2012), 2021, 10, 220.	0.7	7
53	Gait Analysis using Wearable E-Textile Sock: an Experimental Study of Test-Retest Reliability. , 2021, , .		7
54	Analysis of Test-Retest Repeatability of Gait Analysis Parameters in Hereditary Spastic Paraplegia. , 2021, , .		6

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55	The E-Textile for Biomedical Applications: A Systematic Review of Literature. <i>Diagnostics</i> , 2021, 11, 2263.	2.6	6
56	Reproducibility of heart rate turbulence indexes in heart failure patients. , 2010, 2010, 2573-6.		5
57	Effects of wavelets analysis on power spectral distributions in posturographic signal processing. , 2016, , .		5
58	Laser Speckle Imaging of Rat Pial Microvasculature during Hypoperfusion-Reperfusion Damage. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 298.	3.7	5
59	Experimental Study to Improve "Federica" Prosthetic Hand and Its Control System. <i>IFMBE Proceedings</i> , 2020, , 586-593.	0.3	5
60	Effects of Wavelets Analysis on Power Spectral Distributions in Laser Doppler Flowmetry Time Series. <i>IFMBE Proceedings</i> , 2014, , 647-650.	0.3	5
61	Statistical Analysis and Kinematic Assessment of Upper Limb Reaching Task in Parkinson's Disease. <i>Sensors</i> , 2022, 22, 1708.	3.8	5
62	Linear and non-linear indices of heart rate variability in chronic heart failure: mutual interrelationships and prognostic value. , 2005, , .		4
63	Microvascular blood flow regulation impairments in hypertensive obese people. , 2014, , .		4
64	A Machine Learning Approach to Predict the Rehabilitation Outcome in Convalescent COVID-19 Patients. <i>Journal of Personalized Medicine</i> , 2022, 12, 328.	2.5	4
65	A telemedicine home care based activity monitor device. , 2011, , .		3
66	Reproducibility of kinematics indexes of upper arm reaching movement in robot assisted therapy. , 2012, , .		3
67	Fractal behavior of heart rate variability during ECG stress test in cardiac patients. , 2014, , .		3
68	A hybrid decomposition method to infer the sub-movements composition of planar reaching movements. <i>Informatics in Medicine Unlocked</i> , 2017, 9, 210-218.	3.4	3
69	Fractal behaviour of pathological heart rate variability dynamics. <i>WIT Transactions on Biomedicine and Health</i> , 2009, , .	0.0	3
70	Analysis of reaching movements of upper arm in robot assisted exercises. Kinematic assessment of robot assisted upper arm reaching single-joint movements. <i>Giornale Italiano Di Medicina Del Lavoro Ed Ergonomia</i> , 2016, 38, 116-27.	0.3	3
71	Changes in frequency components of blood flow oscillations in hyperglycemic obese people. , 2014, , .		2
72	Correlation between Fractal Behavior of HRV and Neurohormonal and Functional Indexes in Chronic Heart Failure. <i>IFMBE Proceedings</i> , 2010, , 53-56.	0.3	2

#	ARTICLE	IF	CITATIONS
73	Day-Time and Night-Time HRV Ultradian Rhythms in Normal and Pathological Subjects. IFMBE Proceedings, 2011, , 450-453.	0.3	2
74	Effects of Regent Suit on lower limb electromyographic patterns. , 2013, , .		1
75	Frequency domain and symbolic dynamics analysis for the study of cardiac pathologies. , 2013, , .		1
76	Quick-response coding system for tracking rehabilitation treatments in clinical setting. , 2017, , .		1
77	A quantitative analysis of muscular co-activation on EMG signals in spastic patients treated with Botulinum toxin. , 2020, , .		1
78	Heart rate turbulence in obstructive sleep apnea syndrome: The effect of short-term CPAP therapy. European Journal of Internal Medicine, 2021, 86, 111-114.	2.2	1
79	Reliability of kinematic parameters related to the Timed Up and Go Test in patients with gait impairments. , 2021, , .		1
80	Statistical correlation analysis between kinematic features and clinical indexes and scales for obese patients. , 2021, , .		1
81	Improvements of a Simple Piezoresistive Array Armband for Gesture Recognition. , 2020, , .		1
82	Congenital mono-ophthalmia syndrome. Strabismus, 1995, 3, 157-162.	0.7	0
83	Spline interpolation to evaluate foveation parameters in Congenital Nystagmus recordings. , 2013, , .		0
84	Characterization of apnea events in sleep breathing disorder by local assessment of the fractal dimension of heart rate. , 2014, , .		0
85	Blood flow oscillatory patterns in single vessels of rat pial microcirculation evaluated by laser speckle imaging. , 2014, , .		0
86	Relationships between linear and nonlinear indexes of heart rate variability in obstructive sleep apnea syndrome. , 2014, , .		0
87	Computerised simulation of fetal heart rate signals. , 2017, , .		0
88	A case of pulmonary hyperinflation in chronic heart failure: role of diuretic therapy and cardiorespiratory rehabilitation. Clinical Management Issues, 2011, 5, 55-60.	0.3	0
89	A multiple linear regression approach to estimate lifted load from features extracted from inertial data.. Giornale Italiano Di Medicina Del Lavoro Ed Ergonomia, 2021, 43, 373-378.	0.3	0