

Adriano O. Andrade

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

1,903
citations

393982

19
h-index

344852

36
g-index

144
all docs

144
docs citations

144
times ranked

1982
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-pharmacological treatments for COVID-19: current status and consensus. Research on Biomedical Engineering, 2022, 38, 193-208.	1.5	4
2	On the use of telemedicine in the context of COVID-19: legal aspects and a systematic review of technology. Research on Biomedical Engineering, 2022, 38, 209-227.	1.5	16
3	Gamma-Band Frequency Analysis and Motor Development in Music-Trained Children: A Cross-Sectional Study. Journal of Motor Behavior, 2022, 54, 203-211.	0.5	0
4	Prevalence of distinct types of hardware failures related to deep brain stimulation. Neurosurgical Review, 2022, 45, 1123-1134.	1.2	4
5	Low Amplitude Hand Rest Tremor Assessment in Parkinson's Disease Based on Linear and Nonlinear Methods. IFMBE Proceedings, 2022, , 301-306.	0.2	1
6	Changes in Electrical Brain Activity and Cognitive Functions Following Mild to Moderate COVID-19: A one-Year Prospective Study After Acute Infection. Clinical EEG and Neuroscience, 2022, 53, 543-557.	0.9	13
7	Evaluation of the integrity of the facial muscles in leprosy patients using surface electromyography: a cross-sectional study. Leprosy Review, 2022, 93, 115-130.	0.1	0
8	Choice reaction time can be influenced by intervention protocols after stroke: A systematic review. Journal of Bodywork and Movement Therapies, 2021, 26, 207-213.	0.5	0
9	A non-contact system for the assessment of hand motor tasks in people with Parkinson's disease. SN Applied Sciences, 2021, 3, 1.	1.5	1
10	Possible solutions for oxygenation support in critically ill patients with COVID-19. Research on Biomedical Engineering, 2021, 37, 389-402.	1.5	2
11	On the use of histograms of oriented gradients for tremor detection from sinusoidal and spiral handwritten drawings of people with Parkinson's disease. Medical and Biological Engineering and Computing, 2021, 59, 195-214.	1.6	11
12	Open-source data management system for Parkinson's disease follow-up. PeerJ Computer Science, 2021, 7, e396.	2.7	2
13	Evaluation of Deep Brain Stimulation Effect on Motor Signs of Individuals with Movement Disorders Through Gaussian Models. , 2021, , .		1
14	Discrimination between healthy and patients with Parkinson's disease from hand resting activity using inertial measurement unit. BioMedical Engineering OnLine, 2021, 20, 50.	1.3	12
15	Effects of additional load at different heights on gait initiation: A statistical parametric mapping of center of pressure and center of mass behavior. PLoS ONE, 2021, 16, e0242892.	1.1	2
16	Margins of stability of persons with transtibial or transfemoral amputations walking on sloped surfaces. Journal of Biomechanics, 2021, 123, 110453.	0.9	5
17	Discrimination capability of linear and nonlinear gait features in group classification. Medical Engineering and Physics, 2021, 93, 59-71.	0.8	4
18	Electromyographic activity of the sternocleidomastoid muscle in infants with bronchopulmonary dysplasia. Research on Biomedical Engineering, 2021, 37, 535-543.	1.5	0

#	ARTICLE	IF	CITATIONS
19	Intra and inter-rater remote assessment of bradykinesia in Parkinson's disease. <i>Neurologia</i> , 2021, , .	0.3	6
20	Inertial sensors in the motor assessment of Parkinson's Disease in patients who underwent Pallidotomy. <i>Research, Society and Development</i> , 2021, 10, e373101522825.	0.0	2
21	A Human Machine Interface for Serious Games applied to the Rehabilitation of Individuals with Parkinson's Disease. , 2021, , .		1
22	Evaluation of Hjorth parameters using synthetic signals. , 2021, , .		0
23	Task-Specific Tremor Quantification in a Clinical Setting for Parkinson's Disease. <i>Journal of Medical and Biological Engineering</i> , 2020, 40, 821-850.	1.0	10
24	Application of Serious Games based on Virtual Reality for Rehabilitation of Patients with Parkinson's Disease through a Wrist Orthosis. , 2020, , .		3
25	Effects of triceps surae fatigue and weight training level on gait variability and local stability in young adults. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1791-1802.	1.6	4
26	Influence of sampling frequency and number of strides on recurrence quantifiers extracted from gait data. <i>Computers in Biology and Medicine</i> , 2020, 119, 103673.	3.9	2
27	Alpha and beta cortical activity during guitar playing: task complexity and audiovisual stimulus analysis. <i>Somatosensory & Motor Research</i> , 2020, 37, 245-251.	0.4	2
28	Identification of arthropathy and myopathy of the temporomandibular syndrome by biomechanical facial features. <i>BioMedical Engineering OnLine</i> , 2020, 19, 22.	1.3	10
29	Quantification of Coordination Variability During Gait in Fallers and Non-fallers Older Adults at Different Speeds. <i>IFMBE Proceedings</i> , 2020, , 964-969.	0.2	0
30	Classification of Lower Limb Amputees Gait Using Machine Learning Algorithms. <i>IFMBE Proceedings</i> , 2020, , 950-954.	0.2	0
31	Comparative evaluation of methods for the detection of electrodermal responses to multilevel intensity thermal noxious stimuli. <i>Research on Biomedical Engineering</i> , 2019, 35, 183-192.	1.5	0
32	Effects of inclined surfaces on gait variability and stability in unilateral lower limb amputees. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 2337-2346.	1.6	12
33	Improving Detection of Muscular Activation with the Use of Inertial Sensors. <i>IFMBE Proceedings</i> , 2019, , 265-269.	0.2	0
34	Spatial Quantification of Facial Electromyography Artifacts in the Electroencephalogram. <i>IFMBE Proceedings</i> , 2019, , 447-454.	0.2	0
35	Identification and Compression Ratios of Standards for Recording Time-Series Resulting from Biomedical Signals. <i>IFMBE Proceedings</i> , 2019, , 655-659.	0.2	0
36	Efficiency of AR, MA and ARMA Models in Prediction of Raw and Filtered Center of Pressure Signals. <i>IFMBE Proceedings</i> , 2019, , 187-191.	0.2	1

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37	On the Use of Inertial Sensors for the Assessment of Step and Stride Time Variability in Individuals with Parkinson's Disease: Preliminary Study. IFMBE Proceedings, 2019, , 327-331.	0.2	0
38	Ergonomic Evaluation of an Active Wrist Orthosis for the Treatment of Muscular Rigidity in Individuals with Parkinson's Disease. IFMBE Proceedings, 2019, , 635-640.	0.2	1
39	Contrast Enhancement Using CLAHE on the Wavelet Image Decomposition in Dense Breast Mammograms. IFMBE Proceedings, 2019, , 137-141.	0.2	0
40	Use of Non-contact Capacitive Sensors to Detect Hand Gestures. IFMBE Proceedings, 2019, , 517-522.	0.2	2
41	Linear and nonlinear measures of gait variability after anterior cruciate ligament reconstruction. Journal of Electromyography and Kinesiology, 2019, 46, 21-27.	0.7	11
42	Facial Muscular Human-Computer Interface at a Motor Unit Level. Advances in Data Science and Adaptive Analysis, 2019, 11, 1950008.	0.2	0
43	On the Use of Non-Contact Capacitive Sensors for the Assessment of Postural Hand Tremor of Individuals with Parkinson's Disease. , 2019, 2019, 6591-6594.		2
44	CLAHE Parameters Effects on the Quantitative and Visual Assessment of Dense Breast Mammograms. IEEE Latin America Transactions, 2019, 17, 851-857.	1.2	10
45	Methodology for Quantification of Frontal Muscle Electromyography Contamination in the Electroencephalogram. IFMBE Proceedings, 2019, , 535-539.	0.2	0
46	Parameter Estimate from Accelerometer and Gyroscope for Characterization of Wrist Tremor in Individuals with Parkinson's Disease. IFMBE Proceedings, 2019, , 513-517.	0.2	0
47	Immunosensor for electro-detection of the C-reactive protein in serum. Journal of Solid State Electrochemistry, 2018, 22, 1365-1372.	1.2	15
48	Gait variability and symmetry assessment with inertial sensors for quantitative discrimination of Trendelenburg sign in total hip arthroplasty patients: a pilot study based on convenience sampling. Research on Biomedical Engineering, 2018, 34, 65-72.	1.5	4
49	On the Use of <i>t</i> -Distributed Stochastic Neighbor Embedding for Data Visualization and Classification of Individuals with Parkinson's Disease. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-17.	0.7	33
50	Effect of Osteopathic Visceral Manipulation on Pain, Cervical Range of Motion, and Upper Trapezius Muscle Activity in Patients with Chronic Nonspecific Neck Pain and Functional Dyspepsia: A Randomized, Double-Blind, Placebo-Controlled Pilot Study. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-9.	0.5	24
51	Gait variability analysis through phase portrait estimated from the Hilbert transform. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 645-653.	0.9	0
52	Empirical Mode Decomposition and its Extensions Applied to EEG Analysis: A Review. Advances in Data Science and Adaptive Analysis, 2018, 10, 1840001.	0.2	29
53	Effects of backpack load and positioning on nonlinear gait features in young adults. Ergonomics, 2018, 61, 720-728.	1.1	14
54	ARQUITETURA DE UM DISPOSITIVO PORTÁTIL PARA O MONITORAMENTO PROLONGADO DA ATIVIDADE ELETROMIOGRÁFICA EM INDIVÍDUOS COM A DOENÇA DE PARKINSON. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	UMA REVISÃO DOS MÉTODOS PARA AVALIAÇÃO DA BRADICINESIA PARKINSONIANA UTILIZANDO SENSORES INERCIAIS. , 2018, , .		0
56	USO DA REALIDADE VIRTUAL NO TRATAMENTO DE SINTOMAS MOTORES DA DOENÇA DE PARKINSON: UMA REVISÃO SISTEMÁTICA. , 2018, , .		1
57	AVALIAÇÃO DE TECNOLOGIAS EM SAÚDE: UMA VISÃO GERAL. , 2018, , .		0
58	Gait stability, variability and complexity on inclined surfaces. Journal of Biomechanics, 2017, 54, 73-79.	0.9	43
59	Indoor navigation with mobile augmented reality and beacon technology for wheelchair users. , 2017, , .		23
60	Real-time three-dimensional jaw tracking in temporomandibular disorders. Journal of Oral Rehabilitation, 2017, 44, 580-588.	1.3	10
61	Local dynamic stability and gait variability during attentional tasks in young adults. Gait and Posture, 2017, 55, 105-108.	0.6	33
62	A simple, reliable method to determine the mean gait speed using heel markers on a treadmill. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 901-904.	0.9	15
63	Linear and Nonlinear Gait Features in Older Adults Walking on Inclined Surfaces at Different Speeds. Annals of Biomedical Engineering, 2017, 45, 1560-1571.	1.3	21
64	Objective Assessment of Bradykinesia Estimated from the Wrist Extension in Older Adults and Patients with Parkinson's Disease. Annals of Biomedical Engineering, 2017, 45, 2614-2625.	1.3	32
65	Pelvic movement variability of healthy and unilateral hip joint involvement individuals. Biomedical Signal Processing and Control, 2017, 32, 10-19.	3.5	18
66	Effects of backpack loads and positions on the variability of gait spatiotemporal parameters in young adults. Research on Biomedical Engineering, 2017, 33, 277-284.	1.5	8
67	Impact of mastectomy and breast-conserving surgery on quality of life of women after breast cancer. Mundo Da Saude, 2017, 41, 703-710.	0.0	2
68	Mobile Augmented Reality enhances indoor navigation for wheelchair users. Research on Biomedical Engineering, 2016, 32, 111-122.	1.5	17
69	Effects of vibration therapy in the musculoskeletal system in post-surgical breast cancer women: longitudinal controlled clinical study. Research on Biomedical Engineering, 2016, 32, 213-222.	1.5	2
70	Effects of general fatigue induced by incremental maximal exercise test on gait stability and variability of healthy young subjects. Journal of Electromyography and Kinesiology, 2016, 30, 161-167.	0.7	16
71	Feature visualization and classification for the discrimination between individuals with Parkinson's disease under levodopa and DBS treatments. BioMedical Engineering OnLine, 2016, 15, 169.	1.3	18
72	Effects of low-level laser therapy (LLLT 808nm) on lower limb spastic muscle activity in chronic stroke patients. Lasers in Medical Science, 2016, 31, 1293-1300.	1.0	19

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73	Recognition of Intensive Valence and Arousal Affective States via Facial Electromyographic Activity in Young and Senior Adults. PLoS ONE, 2016, 11, e0146691.	1.1	23
74	Data fusion for automated pain recognition. , 2015, , .		11
75	Pain Intensity Recognition Rates via Biopotential Feature Patterns with Support Vector Machines. PLoS ONE, 2015, 10, e0140330.	1.1	96
76	Immediate effects of low-intensity laser (808Ånm) on fatigue and strength of spastic muscle. Lasers in Medical Science, 2015, 30, 1089-1096.	1.0	14
77	Automatic pain quantification using autonomic parameters.. Psychology and Neuroscience, 2014, 7, 363-380.	0.5	70
78	Parametric sEMG muscle activity detection based on MAV and sample entropy. , 2014, , .		2
79	Proposal of a three-dimensional brain mapping system based on the quantitative analysis of the electroencephalographic signal. , 2014, , .		1
80	Bridging the gap between robotic technology and health care. Biomedical Signal Processing and Control, 2014, 10, 65-78.	3.5	58
81	Estimated features from surface EMG of the lower limb correlate with the subjective sensation of pain.. Psychology and Neuroscience, 2014, 7, 355-361.	0.5	8
82	Correlaçãõ da dor e qualidade de vida de mulheres pã³s-tratamento cirãºrgico de cã¢ncer de mama. Mundo Da Saude, 2014, 38, 189-196.	0.0	1
83	A specialized motion capture system for real-time analysis of mandibular movements using infrared cameras. BioMedical Engineering OnLine, 2013, 12, 17.	1.3	27
84	Virtual rehabilitation in women with post breast cancer — A case study. , 2013, , .		4
85	Mouse emulation based on facial electromyogram. Biomedical Signal Processing and Control, 2013, 8, 142-152.	3.5	14
86	The biovid heat pain database data for the advancement and systematic validation of an automated pain recognition system. , 2013, , .		146
87	Human Tremor: Origins, Detection and Quantification. , 2013, , .		3
88	Decomposiãõ e anã¡lise dos potenciais evocados auditivos de tronco encefã¡lico. Revista Brasileira De Engenharia Biomedica, 2013, 29, 15-24.	0.3	0
89	Assessment of the ST segment deviation area as a potential physiological marker of the acute myocardial infarction. , 2012, 2012, 669-72.		3
90	On the relationship between features extracted from EMG and force for constant and dynamic protocols. , 2012, 2012, 3392-5.		10

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91	On the use of evoked potentials for quantification of pain. , 2012, 2012, 1578-81.		5
92	The simulation of click and double-click through EMG signals. , 2012, 2012, 1984-7.		3
93	Quantification of physiological kinetic tremor and its correlation with aging. , 2012, 2012, 2631-4.		3
94	On the use of instantaneous mean frequency estimated from the Hilbert spectrum of facial electromyography for differentiating core affects. , 2012, , .		1
95	Assessment of inter-examiner agreement and variability in the manual classification of auditory brainstem response. BioMedical Engineering OnLine, 2012, 11, 86.	1.3	5
96	Characterization of aortic valve stenosis by mathematical modelling of the reflectance spectroscopy. Journal of Biomedical Graphics and Computing, 2012, 2, .	0.2	0
97	Analysis of the variability of auditory brainstem response components through linear regression. Journal of Biomedical Science and Engineering, 2012, 05, 517-525.	0.2	2
98	Analysis of the relationship between EEG signal and aging through Linear Discriminant Analysis (LDA). Revista Brasileira De Engenharia Biomedica, 2012, , .	0.3	6
99	Alternative communication systems for people with severe motor disabilities: a survey. BioMedical Engineering OnLine, 2011, 10, 31.	1.3	63
100	Classification of EMG signals using artificial neural networks for virtual hand prosthesis control. , 2011, 2011, 7254-7.		21
101	Measurement of jaw motion: the proposal of a simple and accurate method. Journal of Medical Engineering and Technology, 2011, 35, 125-133.	0.8	23
102	Assessment of laryngeal disorders through the global energy of speech. IEEE Latin America Transactions, 2011, 9, 982-990.	1.2	3
103	Análise da relação entre parâmetros da onda M e a dor. Revista Dor, 2011, 12, 301-307.	0.1	1
104	Investigation of Age-Related Changes in Physiological Kinetic Tremor. Annals of Biomedical Engineering, 2010, 38, 3423-3439.	1.3	15
105	On the use of Virtual and Augmented Reality for upper limb prostheses training and simulation. , 2010, 2010, 2451-4.		14
106	The approximate entropy of the electromyographic signals of tremor correlates with the osmotic fragility of human erythrocytes. BioMedical Engineering OnLine, 2010, 9, 29.	1.3	4
107	The use of surface electromyography for the study of auricular acupuncture. Journal of Bodywork and Movement Therapies, 2010, 14, 219-226.	0.5	8
108	On the use of Augmented Reality techniques in learning and interpretation of cardiologic data. , 2010, 2010, 610-3.		24

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109	Design and evaluation of a biomechanical system for athletes performance analysis. Measurement: Journal of the International Measurement Confederation, 2009, 42, 449-455.	2.5	4
110	Study of age-related changes in postural control during quiet standing through Linear Discriminant Analysis. BioMedical Engineering OnLine, 2009, 8, 35.	1.3	65
111	The application of the Hilbert spectrum to the analysis of electromyographic signals. Information Sciences, 2008, 178, 2176-2193.	4.0	46
112	A computational method for recording and analysis of mandibular movements. Journal of Applied Oral Science, 2008, 16, 321-327.	0.7	10
113	A Review on Techniques for Tremor Recording and Quantification. Critical Reviews in Biomedical Engineering, 2007, 35, 343-362.	0.5	74
114	Determination of feature relevance for the grouping of motor unit action potentials through a generative mixture model. Biomedical Signal Processing and Control, 2007, 2, 111-121.	3.5	5
115	Extraction of motor unit action potentials from electromyographic signals through generative topographic mapping. Journal of the Franklin Institute, 2007, 344, 154-179.	1.9	15
116	EMD: A novel technique for the study of tremor time series. , 2007, , 992-996.		1
117	Application of EMD as a novel technique for the study of tremor time series. , 2006, Suppl, 6533-6.		15
118	EMG signal filtering based on Empirical Mode Decomposition. Biomedical Signal Processing and Control, 2006, 1, 44-55.	3.5	149
119	Empirical mode decomposition: a novel technique for the study of tremor time series. Medical and Biological Engineering and Computing, 2006, 44, 569-582.	1.6	85
120	Generative topographic mapping applied to clustering and visualization of motor unit action potentials. BioSystems, 2005, 82, 273-284.	0.9	20
121	An automatic system for clustering and visualization of motor unit action potentials based on generative topographic mapping. , 2005, , .		4
122	Title is missing!. Journal of Intelligent Information Systems, 2003, 21, 127-141.	2.8	110
123	Functional Languages in Signal Processing Applied to Prosthetic Limb Control. Systems Analysis Modelling Simulation, 2002, 42, 1377-1389.	0.1	7
124	A novel spectral representation of electromyographic signals. , 0, , .		16
125	Virtual and Augmented Reality: A New Approach to Aid Users of Myoelectric Prostheses. , 0, , .		2
126	Effectiveness and quality analysis of methods in studies for the treatment of COVID-19. Research on Biomedical Engineering, 0, , 1.	1.5	0

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127	A systematic review of serious games used for rehabilitation of individuals with Parkinson's disease. Research on Biomedical Engineering, 0, , 1.	1.5	6
128	Single session of action observation in choice reaction time in healthy children. Motriz Revista De Educacao Fisica, 0, 27, .	0.3	1
129	MODELAGEM E IMPLEMENTAÇÃO DE BANCO DE DADOS PARA O GERENCIAMENTO DE PROPOSTAS EM INOVAÇÃO TECNOLÓGICA EM SAÚDE. , 0, , 212-218.		0