

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	EMG signal filtering based on Empirical Mode Decomposition. Biomedical Signal Processing and Control, 2006, 1, 44-55.	3.5	149
2	The biovid heat pain database data for the advancement and systematic validation of an automated pain recognition system. , 2013, , .		146
3	Title is missing!. Journal of Intelligent Information Systems, 2003, 21, 127-141.	2.8	110
4	Pain Intensity Recognition Rates via Biopotential Feature Patterns with Support Vector Machines. PLoS ONE, 2015, 10, e0140330.	1.1	96
5	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
6	A Review on Techniques for Tremor Recording and Quantification. Critical Reviews in Biomedical Engineering, 2007, 35, 343-362.	0.5	74
7	Automatic pain quantification using autonomic parameters.. Psychology and Neuroscience, 2014, 7, 363-380.	0.5	70
8	Study of age-related changes in postural control during quiet standing through Linear Discriminant Analysis. BioMedical Engineering OnLine, 2009, 8, 35.	1.3	65
9	Alternative communication systems for people with severe motor disabilities: a survey. BioMedical Engineering OnLine, 2011, 10, 31.	1.3	63
10	Bridging the gap between robotic technology and health care. Biomedical Signal Processing and Control, 2014, 10, 65-78.	3.5	58
11	The application of the Hilbert spectrum to the analysis of electromyographic signals. Information Sciences, 2008, 178, 2176-2193.	4.0	46
12	Gait stability, variability and complexity on inclined surfaces. Journal of Biomechanics, 2017, 54, 73-79.	0.9	43
13	Local dynamic stability and gait variability during attentional tasks in young adults. Gait and Posture, 2017, 55, 105-108.	0.6	33
14	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
15	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
16	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
17	A specialized motion capture system for real-time analysis of mandibular movements using infrared cameras. BioMedical Engineering OnLine, 2013, 12, 17.	1.3	27
18	On the use of Augmented Reality techniques in learning and interpretation of cardiologic data. , 2010, 2010, 610-3.		24

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Indoor navigation with mobile augmented reality and beacon technology for wheelchair users. , 2017, , .		23
22	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
23	Classification of EMG signals using artificial neural networks for virtual hand prosthesis control. , 2011, 2011, 7254-7.		21
24	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
25	Generative topographic mapping applied to clustering and visualization of motor unit action potentials. BioSystems, 2005, 82, 273-284.	0.9	20
26	Effects of low-level laser therapy (LLLT 808Ånm) on lower limb spastic muscle activity in chronic stroke patients. Lasers in Medical Science, 2016, 31, 1293-1300.	1.0	19
27	Feature visualization and classification for the discrimination between individuals with Parkinsonâ€™s disease under levodopa and DBS treatments. BioMedical Engineering OnLine, 2016, 15, 169.	1.3	18
28	Pelvic movement variability of healthy and unilateral hip joint involvement individuals. Biomedical Signal Processing and Control, 2017, 32, 10-19.	3.5	18
29	Mobile Augmented Reality enhances indoor navigation for wheelchair users. Research on Biomedical Engineering, 2016, 32, 111-122.	1.5	17
30	A novel spectral representation of electromyographic signals. , 0, , .		16
31	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
32	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
33	Application of EMD as a novel technique for the study of tremor time series. , 2006, Suppl, 6533-6.		15
34	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
35	Investigation of Age-Related Changes in Physiological Kinetic Tremor. Annals of Biomedical Engineering, 2010, 38, 3423-3439.	1.3	15
36	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

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37	Immunosensor for electro-detection of the C-reactive protein in serum. Journal of Solid State Electrochemistry, 2018, 22, 1365-1372.	1.2	15
38	On the use of Virtual and Augmented Reality for upper limb prostheses training and simulation. , 2010, 2010, 2451-4.		14
39	Mouse emulation based on facial electromyogram. Biomedical Signal Processing and Control, 2013, 8, 142-152.	3.5	14
40	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
41	Effects of backpack load and positioning on nonlinear gait features in young adults. Ergonomics, 2018, 61, 720-728.	1.1	14
42	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
43	Effects of inclined surfaces on gait variability and stability in unilateral lower limb amputees. Medical and Biological Engineering and Computing, 2019, 57, 2337-2346.	1.6	12
44	Discrimination between healthy and patients with Parkinsonâ€™s disease from hand resting activity using inertial measurement unit. BioMedical Engineering OnLine, 2021, 20, 50.	1.3	12
45	Data fusion for automated pain recognition. , 2015, , .		11
46	Linear and nonlinear measures of gait variability after anterior cruciate ligament reconstruction. Journal of Electromyography and Kinesiology, 2019, 46, 21-27.	0.7	11
47	On the use of histograms of oriented gradients for tremor detection from sinusoidal and spiral handwritten drawings of people with Parkinsonâ€™s disease. Medical and Biological Engineering and Computing, 2021, 59, 195-214.	1.6	11
48	A computational method for recording and analysis of mandibular movements. Journal of Applied Oral Science, 2008, 16, 321-327.	0.7	10
49	On the relationship between features extracted from EMG and force for constant and dynamic protocols. , 2012, 2012, 3392-5.		10
50	Real-time three-dimensional jaw tracking in temporomandibular disorders. Journal of Oral Rehabilitation, 2017, 44, 580-588.	1.3	10
51	CLAHE Parameters Effects on the Quantitative and Visual Assessment of Dense Breast Mammograms. IEEE Latin America Transactions, 2019, 17, 851-857.	1.2	10
52	Task-Specific Tremor Quantification in a Clinical Setting for Parkinsonâ€™s Disease. Journal of Medical and Biological Engineering, 2020, 40, 821-850.	1.0	10
53	Identification of arthropathy and myopathy of the temporomandibular syndrome by biomechanical facial features. BioMedical Engineering OnLine, 2020, 19, 22.	1.3	10
54	The use of surface electromyography for the study of auricular acupuncture. Journal of Bodywork and Movement Therapies, 2010, 14, 219-226.	0.5	8

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55	Effects of backpack loads and positions on the variability of gait spatiotemporal parameters in young adults. <i>Research on Biomedical Engineering</i> , 2017, 33, 277-284.	1.5	8
56	Estimated features from surface EMG of the lower limb correlate with the subjective sensation of pain.. <i>Psychology and Neuroscience</i> , 2014, 7, 355-361.	0.5	8
57	Functional Languages in Signal Processing Applied to Prosthetic Limb Control. <i>Systems Analysis Modelling Simulation</i> , 2002, 42, 1377-1389.	0.1	7
58	A systematic review of serious games used for rehabilitation of individuals with Parkinson's disease. <i>Research on Biomedical Engineering</i> , 0, , 1.	1.5	6
59	Intra and inter-rater remote assessment of bradykinesia in Parkinson's disease. <i>Neurologia</i> , 2021, , .	0.3	6
60	Analysis of the relationship between EEG signal and aging through Linear Discriminant Analysis (LDA). <i>Revista Brasileira De Engenharia Biomedica</i> , 2012, , .	0.3	6
61	Determination of feature relevance for the grouping of motor unit action potentials through a generative mixture model. <i>Biomedical Signal Processing and Control</i> , 2007, 2, 111-121.	3.5	5
62	On the use of evoked potentials for quantification of pain. , 2012, 2012, 1578-81.		5
63	Assessment of inter-examiner agreement and variability in the manual classification of auditory brainstem response. <i>BioMedical Engineering OnLine</i> , 2012, 11, 86.	1.3	5
64	Margins of stability of persons with transtibial or transfemoral amputations walking on sloped surfaces. <i>Journal of Biomechanics</i> , 2021, 123, 110453.	0.9	5
65	Design and evaluation of a biomechanical system for athletes performance analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2009, 42, 449-455.	2.5	4
66	The approximate entropy of the electromyographic signals of tremor correlates with the osmotic fragility of human erythrocytes. <i>BioMedical Engineering OnLine</i> , 2010, 9, 29.	1.3	4
67	Virtual rehabilitation in women with post breast cancer — A case study. , 2013, , .		4
68	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. <i>Research on Biomedical Engineering</i> , 2018, 34, 65-72.	1.5	4
69	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
70	Non-pharmacological treatments for COVID-19: current status and consensus. <i>Research on Biomedical Engineering</i> , 2022, 38, 193-208.	1.5	4
71	Discrimination capability of linear and nonlinear gait features in group classification. <i>Medical Engineering and Physics</i> , 2021, 93, 59-71.	0.8	4
72	An automatic system for clustering and visualization of motor unit action potentials based on generative topographic mapping. , 2005, , .		4

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73	Prevalence of distinct types of hardware failures related to deep brain stimulation. <i>Neurosurgical Review</i> , 2022, 45, 1123-1134.	1.2	4
74	Assessment of laryngeal disorders through the global energy of speech. <i>IEEE Latin America Transactions</i> , 2011, 9, 982-990.	1.2	3
75	Assessment of the ST segment deviation area as a potential physiological marker of the acute myocardial infarction. , 2012, 2012, 669-72.		3
76	The simulation of click and double-click through EMG signals. , 2012, 2012, 1984-7.		3
77	Quantification of physiological kinetic tremor and its correlation with aging. , 2012, 2012, 2631-4.		3
78	Human Tremor: Origins, Detection and Quantification. , 2013, , .		3
79	Application of Serious Games based on Virtual Reality for Rehabilitation of Patients with Parkinsonâ€™s Disease through a Wrist Orthosis. , 2020, , .		3
80	Virtual and Augmented Reality: A New Approach to Aid Users of Myoelectric Prostheses. , 0, , .		2
81	Parametric sEMG muscle activity detection based on MAV and sample entropy. , 2014, , .		2
82	Effects of vibration therapy in the musculoskeletal system in post-surgical breast cancer women: longitudinal controlled clinical study. <i>Research on Biomedical Engineering</i> , 2016, 32, 213-222.	1.5	2
83	Use of Non-contact Capacitive Sensors to Detect Hand Gestures. <i>IFMBE Proceedings</i> , 2019, , 517-522.	0.2	2
84	On the Use of Non-Contact Capacitive Sensors for the Assessment of Postural Hand Tremor of Individuals with Parkinsonâ€™s Disease. , 2019, 2019, 6591-6594.		2
85	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
86	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
87	Possible solutions for oxygenation support in critically ill patients with COVID-19. <i>Research on Biomedical Engineering</i> , 2021, 37, 389-402.	1.5	2
88	Open-source data management system for Parkinsonâ€™s disease follow-up. <i>PeerJ Computer Science</i> , 2021, 7, e396.	2.7	2
89	Effects of additional load at different heights on gait initiation: A statistical parametric mapping of center of pressure and center of mass behavior. <i>PLoS ONE</i> , 2021, 16, e0242892.	1.1	2
90	Impact of mastectomy and breast-conserving surgery on quality of life of women after breast cancer. <i>Mundo Da Saude</i> , 2017, 41, 703-710.	0.0	2

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91	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
92	Inertial sensors in the motor assessment of Parkinson's Disease in patients who underwent Pallidotomy. Research, Society and Development, 2021, 10, e373101522825.	0.0	2
93	On the use of instantaneous mean frequency estimated from the Hilbert spectrum of facial electromyography for differentiating core affects. , 2012, , .		1
94	Proposal of a three-dimensional brain mapping system based on the quantitative analysis of the electroencephalographic signal. , 2014, , .		1
95	Efficiency of AR, MA and ARMA Models in Prediction of Raw and Filtered Center of Pressure Signals. IFMBE Proceedings, 2019, , 187-191.	0.2	1
96	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
97	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
98	Evaluation of Deep Brain Stimulation Effect on Motor Signs of Individuals with Movement Disorders Through Gaussian Models. , 2021, , .		1
99	Single session of action observation in choice reaction time in healthy children. Motriz Revista De Educacao Fisica, 0, 27, .	0.3	1
100	Análise da relação entre parâmetros da onda M e a dor. Revista Dor, 2011, 12, 301-307.	0.1	1
101	Correlação da dor e qualidade de vida de mulheres pós-tratamento cirúrgico de câncer de mama. Mundo Da Saude, 2014, 38, 189-196.	0.0	1
102	USO DA REALIDADE VIRTUAL NO TRATAMENTO DE SINTOMAS MOTORES DA DOENÇA DE PARKINSON: UMA REVISÃO SISTEMÁTICA. , 2018, , .		1
103	EMD: A novel technique for the study of tremor time series. , 2007, , 992-996.		1
104	A Human Machine Interface for Serious Games applied to the Rehabilitation of Individuals with Parkinson's Disease. , 2021, , .		1
105	Low Amplitude Hand Rest Tremor Assessment in Parkinson's Disease Based on Linear and Nonlinear Methods. IFMBE Proceedings, 2022, , 301-306.	0.2	1
106	Characterization of aortic valve stenosis by mathematical modelling of the reflectance spectroscopy. Journal of Biomedical Graphics and Computing, 2012, 2, .	0.2	0
107	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
108	Comparative evaluation of methods for the detection of electrodermal responses to multilevel intensity thermal noxious stimuli. Research on Biomedical Engineering, 2019, 35, 183-192.	1.5	0

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109	Improving Detection of Muscular Activation with the Use of Inertial Sensors. IFMBE Proceedings, 2019, , 265-269.	0.2	0
110	Spatial Quantification of Facial Electromyography Artifacts in the Electroencephalogram. IFMBE Proceedings, 2019, , 447-454.	0.2	0
111	Identification and Compression Ratios of Standards for Recording Time-Series Resulting from Biomedical Signals. IFMBE Proceedings, 2019, , 655-659.	0.2	0
112	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
113	Contrast Enhancement Using CLAHE on the Wavelet Image Decomposition in Dense Breast Mammograms. IFMBE Proceedings, 2019, , 137-141.	0.2	0
114	Facial Muscular Human-Computer Interface at a Motor Unit Level. Advances in Data Science and Adaptive Analysis, 2019, 11, 1950008.	0.2	0
115	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
116	Effectiveness and quality analysis of methods in studies for the treatment of COVID-19. Research on Biomedical Engineering, 0, , 1.	1.5	0
117	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
118	Electromyographic activity of the sternocleidomastoid muscle in infants with bronchopulmonary dysplasia. Research on Biomedical Engineering, 2021, 37, 535-543.	1.5	0
119	Decomposição e análise dos potenciais evocados auditivos de tronco encefálico. Revista Brasileira De Engenharia Biomedica, 2013, 29, 15-24.	0.3	0
120	ARQUITETURA DE UM DISPOSITIVO PORTÁTIL PARA O MONITORAMENTO PROLONGADO DA ATIVIDADE ELETROMIOGRÁFICA EM INDIVÍDUOS COM A DOENÇA DE PARKINSON. , 2018, , .		0
121	UMA REVISÃO DOS MÉTODOS PARA AVALIAÇÃO DA BRADICINESIA PARKINSONIANA UTILIZANDO SENSORES INERCIAIS. , 2018, , .		0
122	AVALIAÇÃO DE TECNOLOGIAS EM SAÚDE: UMA VISÃO GERAL. , 2018, , .		0
123	Methodology for Quantification of Frontal Muscle Electromyography Contamination in the Electroencephalogram. IFMBE Proceedings, 2019, , 535-539.	0.2	0
124	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
125	MODELAGEM E IMPLEMENTAÇÃO DE BANCO DE DADOS PARA O GERENCIAMENTO DE PROPOSTAS EM INOVAÇÃO TECNOLÓGICA EM SAÚDE. , 0, , 212-218.		0
126	Quantification of Coordination Variability During Gait in Fallers and Non-fallers Older Adults at Different Speeds. IFMBE Proceedings, 2020, , 964-969.	0.2	0

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127	Classification of Lower Limb Amputees Gait Using Machine Learning Algorithms. IFMBE Proceedings, 2020, , 950-954.	0.2	0
128	Evaluation of Hjorth parameters using synthetic signals. , 2021, , .		0
129	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