

Francisco Assis Nascimento

List of Publications by Year in descending order

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88
papers

823
citations

840776

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642732

23
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91
all docs

91
docs citations

91
times ranked

899
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Non-Invasive Techniques to Detect and Predict Localised Muscle Fatigue. Sensors, 2011, 11, 3545-3594.	3.8	214
2	Development of a Matlab software for analysis of heart rate variability. , 0, , .		55
3	Modified DFT-Based Phasor Estimation Algorithms for Numerical Relaying Applications. IEEE Transactions on Power Delivery, 2018, 33, 1165-1173.	4.3	52
4	Compression of EMG signals with wavelet transform and artificial neural networks. Physiological Measurement, 2006, 27, 457-465.	2.1	33
5	Voltage unbalance numerical evaluation and minimization. Electric Power Systems Research, 2009, 79, 1441-1445.	3.6	30
6	Weighted-Cumulated S-EMG Muscle Fatigue Estimator. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1854-1862.	6.3	26
7	Spectral Shape Estimation in Data Compression for Smart Grid Monitoring. IEEE Transactions on Smart Grid, 2016, 7, 1214-1221.	9.0	23
8	Confounding factors in water EMG recordings: an approach to a definitive standard. Medical and Biological Engineering and Computing, 2006, 44, 348-351.	2.8	20
9	Study on the optimal order for the auto-regressive time-frequency analysis of heart rate variability. , 0, , .		17
10	A tool for time-frequency analysis of heart rate variability. , 0, , .		17
11	Semi-automatic detection of the left ventricular border. , 2008, 2008, 218-21.		17
12	Model driven engineering for MPSOC design space exploration. , 2007, , .		16
13	ModES: Embedded Systems Design Methodology and Tools based on MDE. , 2007, , .		15
14	Semi-automatic algorithm for construction of the left ventricular area variation curve over a complete cardiac cycle. BioMedical Engineering OnLine, 2010, 9, 5.	2.7	15
15	S-EMG signal compression based on domain transformation and spectral shape dynamic bit allocation. BioMedical Engineering OnLine, 2014, 13, 22.	2.7	14
16	Compression of electromyographic signals using image compression techniques. , 2008, 2008, 2948-51.		13
17	Two-dimensional compression of surface electromyographic signals using column-correlation sorting and image encoders. , 2009, 2009, 428-31.		13
18	S-EMG Signal Compression in One-Dimensional and Two-Dimensional Approaches. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1104-1113.	6.3	13

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19	On the behavior of surface electromyographic variables during the menstrual cycle. <i>Physiological Measurement</i> , 2011, 32, 543-557.	2.1	12
20	Measurement of ejection fraction with standard thermodilution catheters. <i>Medical Engineering and Physics</i> , 2002, 24, 325-335.	1.7	11
21	Reliability of normalized surface electromyographic signals of maximal upper-body isokinetic strength. <i>Isokinetics and Exercise Science</i> , 2015, 23, 1-12.	0.4	11
22	A model-driven engineering framework for embedded systems design. <i>Innovations in Systems and Software Engineering</i> , 2012, 8, 19-33.	2.1	8
23	A new biomechanical hand prosthesis controlled by surface electromyographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 6142-5.	0.5	7
24	Gender differences in muscle fatigue of the biceps brachii and influences of female menstrual cycle in electromyography variables. , 2008, 2008, 2598-601.		7
25	Estimation of foot orientation with respect to ground for an above knee robotic prosthesis. , 2009, , .		7
26	Improved Transient Data Compression Algorithm Based on Wavelet Spectral Quantization Models. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 2222-2232.	4.3	7
27	Algorithm for compression of EMG signals. , 0, , .		6
28	Analysis of mammogram using self-organizing neural networks based on spatial isomorphism. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007, , .	0.0	6
29	A New Wavelet-Based Algorithm for Compression of Emg Signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 1554-7.	0.5	6
30	Analysis of the complex voltage unbalance factor behavior resulting from the variation of voltage magnitudes and angles. , 2010, , .		6
31	Application-Oriented Programming Model for Sensor Networks Embedded in the Human Body. , 2006, 2006, 6037-40.		5
32	Adaptive Knee Joint Control for an Active Amputee Prosthesis. , 2008, , .		5
33	In vivomeasurements of heat transfer on the endocardial surface. <i>Physiological Measurement</i> , 2003, 24, 793-804.	2.1	4
34	Evaluation of Techniques for the Study of Electromyographic Signals. , 2006, 2006, 1335-8.		4
35	A SVM for GPCR Protein Prediction Using Pattern Discovery. , 2008, , .		4
36	Detecting Replicas within Audio Evidence Using an Adaptive Audio Fingerprinting Scheme. <i>AES: Journal of the Audio Engineering Society</i> , 2015, , 451-462.	1.0	4

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37	Improved two-dimensional dynamic S-EMG Signal compression with robust automatic segmentation. Biomedical Signal Processing and Control, 2021, 68, 102578.	5.7	4
38	Detection of AMR double compression using compressed-domain speech features. Forensic Science International: Digital Investigation, 2020, 33, 200907.	1.7	4
39	Knee Angle Estimation Algorithm for Myoelectric Control of Active Transfemoral Prostheses. Communications in Computer and Information Science, 2010, , 124-135.	0.5	4
40	The Terminological Polyhedron in LGBTQ Terminology: Self-Naming as a Power to Empower in Knowledge Organization. Knowledge Organization, 2017, 44, 586-591.	0.2	4
41	A Framework for Automated Evidence Gathering with Mobile Systems Using Bayesian Networks. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3681-4.	0.5	3
42	Exploiting the model-driven engineering approach to improve design space exploration of embedded systems. , 2009, , .		3
43	On the use of motion-based frame rejection in temporal averaging denoising for segmentation of echocardiographic image sequences. , 2009, 2009, 507-10.		3
44	Design space abstraction and metamodeling for embedded systems design space exploration. , 2010, , .		3
45	Study of voltage unbalance conditions based on the behavior of the complex voltage unbalance factor (CVUF). , 2010, , .		3
46	The hypothesis of high concentration of electrons on tissues as a cause of diseases. , 2010, , .		3
47	Study of muscle fatigue in isokinetic exercise with estimated conduction velocity and traditional electromyographic indicators. Revista Brasileira De Engenharia Biomedica, 2014, 30, 312-321.	0.3	3
48	Hybrid adaptive image coding: transform coding and vectorial classification approach for bit allocation. , 0, , .		2
49	Effects of the time response of the temperature sensor on thermodilution measurements. Physiological Measurement, 2005, 26, 885-901.	2.1	2
50	Surface EMG and spatial resolution analysis with estimation of electromyographic descriptors. , 2008, 2008, 4748-51.		2
51	Energy efficient simulator for patient monitoring in Body Sensor Networks. , 2008, 2008, 1537-40.		2
52	Isokinetic work-to-surface electromyographic signal energy ratios as a muscular fatigue indicator. , 2009, 2009, 1310-3.		2
53	The behavior of action potential conduction velocity on isokinetic knee extension tests. , 2010, 2010, 1348-51.		2
54	The conduction velocity as a muscular fatigue indicator during isokinetic contractions. , 2010, , .		2

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55	Myoelectric Knee Angle Estimation Algorithms for Control of Active Transfemoral Leg Prostheses. , 2011, , .		2
56	Compression of S-EMG signals by transforms and spectral profile for bit allocation. , 2013, , .		2
57	Arquitetura para o processamento integrado de sinais biomecnicos e eletromiogrficos. Revista Brasileira De Engenharia Biomedica, 2011, 27, 24-38.	0.3	2
58	Anlise da estacionariedade do sinal de eletromiografia de superfcie nas fases do exerccio isocintico de extenso do joelho. Revista Brasileira De Engenharia Biomedica, 2012, 28, 44-52.	0.3	2
59	Algoritmo de Mxima Verossimilhansa para a Estimo da Velocidade de Conduo Mdia de Sinais Eletromiogrficos de Superfcie. IFMBE Proceedings, 2007, , 1049-1053.	0.3	2
60	Anlise de Filtros Espaciais em Sinais EMG de Superfcie nas Condies do Mximo Volume de Contrao. IFMBE Proceedings, 2007, , 95-98.	0.3	2
61	Noise Robust Speaker Recognition using Reduced Multiconditional Gaussian Mixture Models. The International Journal of Forensic Computer Science, 2008, , 60-69.	1.3	2
62	DEVELOPMENT OF A MYOELECTRIC CONTROLLER BASED ON KNEE ANGLE ESTIMATION. , 2009, , .		2
63	Sistema de apoio ao diagnstico da Doena de Chagas baseado em escalogramas e redes neurais auto-organizveis. Revista Brasileira De Engenharia Biomedica, 2013, 29, 242-253.	0.3	2
64	Phasor Estimation Algorithms Based on the Discrete Hartley Transform. , 2020, , .		2
65	Data compression algorithm for transient recording system. , 0, , .		1
66	Quantifying voltage unbalance: Evaluating the influence of aggregation intervals. , 2010, , .		1
67	Effect of Superposition and Window Length in Fatigue Estimation By Weighted-Cumulated Methodology. , 2019, , .		1
68	Cycling fatigue evaluation using weighted-cumulated methodology. Research on Biomedical Engineering, 2019, 35, 77-87.	2.2	1
69	Forensic AMR Double Compression Detection Using Linear Prediction Coefficients and Robust Scaling. AES: Journal of the Audio Engineering Society, 2019, 67, 795-806.	1.0	1
70	Automatic Speaker Recognition with Multi-Resolution Gaussian Mixture Models (MR-GMM). The International Journal of Forensic Computer Science, 2009, , 9-21.	1.3	1
71	Frequency Speech Scrambler Based on the Hartley Transform and the Insertion of Random Frequency Components. The International Journal of Forensic Computer Science, 2012, , 8-15.	1.3	1
72	Dynamic bit allocation in image coding using a Self-Organizing Map with Learning Vector Quantization. , 0, , .		0

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73	Improved dynamic bit allocation in image coding using a self-organizing map with learning vector quantization. , 0, , .		0
74	Effects of the digitalization rate and windowing in quality energy parameters computing. , 0, , .		0
75	Coding of Echocardiographic Image by Selection of the Normalization Matrix Using Fuzzy Logic. , 2006, 2006, 1089-92.		0
76	A New Model for Programming Software in Body Sensor Networks. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1515-8.	0.5	0
77	An instrument to measure the convective heat transfer coefficient on large vessels. , 2008, 2008, 117-20.		0
78	Using MDE for the formal verification of embedded systems modeled by UML sequence diagrams. , 2009, , .		0
79	MDE approach to the co-synthesis of embedded systems using a MOF-based internal design representation. , 2009, , .		0
80	Stationarity of surface electromyographic signals on isokinetic knee extension test. , 2011, , .		0
81	Change in slope of conduction velocity linear regression as an indicator of muscle fatigue. , 2013, , .		0
82	Effect of the amount of sub-bands in the performance of discrete wavelet transform based dynamic S-EMG signals encoder. , 2014, , .		0
83	MP52-20 EFFECTS OF VITAMIN D RESTRICTION DURING PERI AND POSTNATAL LIFE ON PENIS MORPHOLOGY IN WISTAR RATS' OFFSPRING. Journal of Urology, 2015, 193, .	0.4	0
84	Agroindustrial Sector Global Evaluation System. Assa, Cssa and Sssa, 0, , 1865-1869.	0.6	0
85	Modified DFT-Based Phasor Estimation Algorithms for Numerical Relaying Applications. , 2018, , .		0
86	CompressÃ£o de Sinais de EMG isomÃ©tricos utilizando JPEG2000. IFMBE Proceedings, 2007, , 211-214.	0.3	0
87	FERRAMENTA DE COLETA TELEMÃ©TRICA DOS DADOS DA FORÃ§A APLICADA AO PEDAL INSTRUMENTADO: ANÃLISE EM TEMPO REAL. , 2018, , .		0
88	Segmentation and Entropy Coding Analysis of a Data Compression System for Power Quality Disturbances. , 2020, , .		0