

# Francisco Assis Nascimento

## List of Publications by Year in descending order

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88  
papers

823  
citations

949033

11  
h-index

721071

23  
g-index

91  
all docs

91  
docs citations

91  
times ranked

972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved two-dimensional dynamic S-EMG Signal compression with robust automatic segmentation. Biomedical Signal Processing and Control, 2021, 68, 102578.	3.5	4
2	Improved Transient Data Compression Algorithm Based on Wavelet Spectral Quantization Models. IEEE Transactions on Power Delivery, 2020, 35, 2222-2232.	2.9	7
3	Detection of AMR double compression using compressed-domain speech features. Forensic Science International: Digital Investigation, 2020, 33, 200907.	1.2	4
4	Segmentation and Entropy Coding Analysis of a Data Compression System for Power Quality Disturbances. , 2020, , .		0
5	Phasor Estimation Algorithms Based on the Discrete Hartley Transform. , 2020, , .		2
6	Effect of Superposition and Window Length in Fatigue Estimation By Weighted-Cumulated Methodology. , 2019, , .		1
7	Cycling fatigue evaluation using weighted-cumulated methodology. Research on Biomedical Engineering, 2019, 35, 77-87.	1.5	1
8	Forensic AMR Double Compression Detection Using Linear Prediction Coefficients and Robust Scaling. AES: Journal of the Audio Engineering Society, 2019, 67, 795-806.	0.8	1
9	Weighted-Cumulated S-EMG Muscle Fatigue Estimator. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1854-1862.	3.9	26
10	S-EMG Signal Compression in One-Dimensional and Two-Dimensional Approaches. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1104-1113.	3.9	13
11	Modified DFT-Based Phasor Estimation Algorithms for Numerical Relaying Applications. IEEE Transactions on Power Delivery, 2018, 33, 1165-1173.	2.9	52
12	Modified DFT-Based Phasor Estimation Algorithms for Numerical Relaying Applications. , 2018, , .		0
13	FERRAMENTA DE COLETA TELEMÁTICA DOS DADOS DA FORÇA APLICADA AO PEDAL INSTRUMENTADO: ANÁLISE EM TEMPO REAL. , 2018, , .		0
14	The Terminological Polyhedron in LGBTQ Terminology: Self-Naming as a Power to Empower in Knowledge Organization. Knowledge Organization, 2017, 44, 586-591.	0.1	4
15	Spectral Shape Estimation in Data Compression for Smart Grid Monitoring. IEEE Transactions on Smart Grid, 2016, 7, 1214-1221.	6.2	23
16	MP52-20 EFFECTS OF VITAMIN D RESTRICTION DURING PERI AND POSTNATAL LIFE ON PENIS MORPHOLOGY IN WISTAR RATS' OFFSPRING. Journal of Urology, 2015, 193, .	0.2	0
17	Detecting Replicas within Audio Evidence Using an Adaptive Audio Fingerprinting Scheme. AES: Journal of the Audio Engineering Society, 2015, , 451-462.	0.8	4
18	Reliability of normalized surface electromyographic signals of maximal upper-body isokinetic strength. Isokinetics and Exercise Science, 2015, 23, 1-12.	0.2	11

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19	Study of muscle fatigue in isokinetic exercise with estimated conduction velocity and traditional electromyographic indicators. <i>Revista Brasileira De Engenharia Biomedica</i> , 2014, 30, 312-321.	0.3	3
20	Effect of the amount of sub-bands in the performance of discrete wavelet transform based dynamic S-EMG signals encoder. , 2014, , .		0
21	S-EMG signal compression based on domain transformation and spectral shape dynamic bit allocation. <i>BioMedical Engineering OnLine</i> , 2014, 13, 22.	1.3	14
22	Compression of S-EMG signals by transforms and spectral profile for bit allocation. , 2013, , .		2
23	Change in slope of conduction velocity linear regression as an indicator of muscle fatigue. , 2013, , .		0
24	Sistema de apoio ao diagnÃ³stico da DoenÃ§a de Chagas baseado em escalogramas e redes neurais auto-organizÃ¡veis. <i>Revista Brasileira De Engenharia Biomedica</i> , 2013, 29, 242-253.	0.3	2
25	A model-driven engineering framework for embedded systems design. <i>Innovations in Systems and Software Engineering</i> , 2012, 8, 19-33.	1.6	8
26	AnÃ¡lise da estacionariedade do sinal de eletromiografia de superfÃ¡cie nas fases do exercÃ©cio isocinÃ©tico de extensÃ£o do joelho. <i>Revista Brasileira De Engenharia Biomedica</i> , 2012, 28, 44-52.	0.3	2
27	Frequency Speech Scrambler Based on the Hartley Transform and the Insertion of Random Frequency Components. <i>The International Journal of Forensic Computer Science</i> , 2012, , 8-15.	1.3	1
28	Stationarity of surface electromyographic signals on isokinetic knee extension test. , 2011, , .		0
29	Myoelectric Knee Angle Estimation Algorithms for Control of Active Transfemoral Leg Prostheses. , 2011, , .		2
30	On the behavior of surface electromyographic variables during the menstrual cycle. <i>Physiological Measurement</i> , 2011, 32, 543-557.	1.2	12
31	A Review of Non-Invasive Techniques to Detect and Predict Localised Muscle Fatigue. <i>Sensors</i> , 2011, 11, 3545-3594.	2.1	214
32	Arquitetura para o processamento integrado de sinais biomecÃ¢nicos e eletromiogrÃ¡ficos. <i>Revista Brasileira De Engenharia Biomedica</i> , 2011, 27, 24-38.	0.3	2
33	Design space abstraction and metamodeling for embedded systems design space exploration. , 2010, , .		3
34	Semi-automatic algorithm for construction of the left ventricular area variation curve over a complete cardiac cycle. <i>BioMedical Engineering OnLine</i> , 2010, 9, 5.	1.3	15
35	Study of voltage unbalance conditions based on the behavior of the complex voltage unbalance factor (CVUF). , 2010, , .		3
36	Analysis of the complex voltage unbalance factor behavior resulting from the variation of voltage magnitudes and angles. , 2010, , .		6

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37	Quantifying voltage unbalance: Evaluating the influence of aggregation intervals. , 2010, , .		1
38	The behavior of action potential conduction velocity on isokinetic knee extension tests. , 2010, 2010, 1348-51.		2
39	The hypothesis of high concentration of electrons on tissues as a cause of diseases. , 2010, , .		3
40	The conduction velocity as a muscular fatigue indicator during isokinetic contractions. , 2010, , .		2
41	Knee Angle Estimation Algorithm for Myoelectric Control of Active Transfemoral Prostheses. Communications in Computer and Information Science, 2010, , 124-135.	0.4	4
42	Estimation of foot orientation with respect to ground for an above knee robotic prosthesis. , 2009, , .		7
43	Isokinetic work-to-surface electromyographic signal energy ratios as a muscular fatigue indicator. , 2009, 2009, 1310-3.		2
44	Using MDE for the formal verification of embedded systems modeled by UML sequence diagrams. , 2009, , .		0
45	Voltage unbalance numerical evaluation and minimization. Electric Power Systems Research, 2009, 79, 1441-1445.	2.1	30
46	Exploiting the model-driven engineering approach to improve design space exploration of embedded systems. , 2009, , .		3
47	Two-dimensional compression of surface electromyographic signals using column-correlation sorting and image encoders. , 2009, 2009, 428-31.		13
48	MDE approach to the co-synthesis of embedded systems using a MOF-based internal design representation. , 2009, , .		0
49	On the use of motion-based frame rejection in temporal averaging denoising for segmentation of echocardiographic image sequences. , 2009, 2009, 507-10.		3
50	Automatic Speaker Recognition with Multi-Resolution Gaussian Mixture Models (MR-GMM). The International Journal of Forensic Computer Science, 2009, , 9-21.	1.3	1
51	DEVELOPMENT OF A MYOELECTRIC CONTROLLER BASED ON KNEE ANGLE ESTIMATION. , 2009, , .		2
52	Semi-automatic detection of the left ventricular border. , 2008, 2008, 218-21.		17
53	An instrument to measure the convective heat transfer coefficient on large vessels. , 2008, 2008, 117-20.		0
54	Adaptive Knee Joint Control for an Active Amputee Prosthesis. , 2008, , .		5

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55	A SVM for GPCR Protein Prediction Using Pattern Discovery. , 2008, , .		4
56	Compression of electromyographic signals using image compression techniques. , 2008, 2008, 2948-51.		13
57	Gender differences in muscle fatigue of the biceps brachii and influences of female menstrual cycle in electromyography variables. , 2008, 2008, 2598-601.		7
58	Surface EMG and spatial resolution analysis with estimation of electromyographic descriptors. , 2008, 2008, 4748-51.		2
59	Energy efficient simulator for patient monitoring in Body Sensor Networks. , 2008, 2008, 1537-40.		2
60	Noise Robust Speaker Recognition using Reduced Multiconditional Gaussian Mixture Models. The International Journal of Forensic Computer Science, 2008, , 60-69.	1.3	2
61	A new biomechanical hand prosthesis controlled by surface electromyographic signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6142-5.	0.5	7
62	Analysis of mammogram using self-organizing neural networks based on spatial isomorphism. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	6
63	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
64	Model driven engineering for MPSOC design space exploration. , 2007, , .		16
65	A New Wavelet-Based Algorithm for Compression of Emg Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1554-7.	0.5	6
66	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
67	ModES: Embedded Systems Design Methodology and Tools based on MDE. , 2007, , .		15
68	CompressÃ£o de Sinais de EMG isomÃ©tricos utilizando JPEG2000. IFMBE Proceedings, 2007, , 211-214.	0.2	0
69	Algoritmo de MÃ¡xima VerossimilhanÃ§a para a EstimaÃ§Ã£o da Velocidade de ConduÃ§Ã£o MÃ©dia de Sinais EletromiogrÃ¡ficos de SuperfÃcie. IFMBE Proceedings, 2007, , 1049-1053.	0.2	2
70	AnÃ¡lise de Filtros Espaciais em Sinais EMG de SuperfÃcie nas CondiÃ§Ãµes do MÃ¡ximo Volume de ContraÃ§Ã£o. IFMBE Proceedings, 2007, , 95-98.	0.2	2
71	Confounding factors in water EMG recordings: an approach to a definitive standard. Medical and Biological Engineering and Computing, 2006, 44, 348-351.	1.6	20
72	Coding of Echocardiographic Image by Selection of the Normalization Matrix Using Fuzzy Logic. , 2006, 2006, 1089-92.		0

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73	Application-Oriented Programming Model for Sensor Networks Embedded in the Human Body. , 2006, 2006, 6037-40.		5
74	Evaluation of Techniques for the Study of Electromyographic Signals. , 2006, 2006, 1335-8.		4
75	Compression of EMG signals with wavelet transform and artificial neural networks. Physiological Measurement, 2006, 27, 457-465.	1.2	33
76	Effects of the time response of the temperature sensor on thermodilution measurements. Physiological Measurement, 2005, 26, 885-901.	1.2	2
77	In vivomeasurements of heat transfer on the endocardial surface. Physiological Measurement, 2003, 24, 793-804.	1.2	4
78	Measurement of ejection fraction with standard thermodilution catheters. Medical Engineering and Physics, 2002, 24, 325-335.	0.8	11
79	Dynamic bit allocation in image coding using a Self-Organizing Map with Learning Vector Quantization. , 0, , .		0
80	Hybrid adaptive image coding: transform coding and vectorial classification approach for bit allocation. , 0, , .		2
81	Improved dynamic bit allocation in image coding using a self-organizing map with learning vector quantization. , 0, , .		0
82	Data compression algorithm for transient recording system. , 0, , .		1
83	Development of a Matlab software for analysis of heart rate variability. , 0, , .		55
84	Study on the optimal order for the auto-regressive time-frequency analysis of heart rate variability. , 0, , .		17
85	A tool for time-frequency analysis of heart rate variability. , 0, , .		17
86	Algorithm for compression of EMG signals. , 0, , .		6
87	Effects of the digitalization rate and windowing in quality energy parameters computing. , 0, , .		0
88	Agroindustrial Sector Global Evaluation System. Assa, Cssa and Sssa, 0, , 1865-1869.	0.6	0