

Joo Paulo Cunha

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

1,553
citations

22
h-index

37
g-index

123
ext. papers

1,979
ext. citations

2.9
avg, IF

5.3
L-index

#	Paper	IF	Citations
107	Wearable Health Devices-Vital Sign Monitoring, Systems and Technologies. <i>Sensors</i> , 2018 , 18,	3.8	309
106	MPEG-7 Visual Descriptors Contributions for Automated Feature Extraction in Capsule Endoscopy. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2006 , 16, 628-637	6.4	123
105	A novel dry active electrode for EEG recording. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 162-5	5	99
104	Automated topographic segmentation and transit time estimation in endoscopic capsule exams. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 19-27	11.7	57
103	Movement quantification in epileptic seizures: a new approach to video-EEG analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 565-73	5	53
102	Heart rate variability metrics for fine-grained stress level assessment. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 148, 71-80	6.9	50
101	Connectivity patterns of pallidal DBS electrodes in focal dystonia: a diffusion tensor tractography study. <i>NeuroImage</i> , 2014 , 84, 435-42	7.9	39
100	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3294-3303	6.1	33
99	On-line determination of biomass in a microalga bioreactor using a novel computerized flow injection analysis system. <i>Biotechnology Progress</i> , 2002 , 18, 1387-91	2.8	32
98	NeuroKinect: A Novel Low-Cost 3Dvideo-EEG System for Epileptic Seizure Motion Quantification. <i>PLoS ONE</i> , 2016 , 11, e0145669	3.7	31
97	Lateralizing significance of quantitative analysis of head movements before secondary generalization of seizures of patients with temporal lobe epilepsy. <i>Epilepsia</i> , 2007 , 48, 524-30	6.4	30
96	What does an epileptiform spike look like in MEG? Comparison between coincident EEG and MEG spikes. <i>Journal of Clinical Neurophysiology</i> , 2005 , 22, 68-73	2.2	28
95	A diffusion-based connectivity map of the GPI for optimised stereotactic targeting in DBS. <i>NeuroImage</i> , 2017 , 144, 83-91	7.9	27
94	Optical fiber tips for biological applications: From light confinement, biosensing to bioparticles manipulation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018 , 1862, 1209-1246	4	25
93	. <i>IEEE Sensors Journal</i> , 2011 , 11, 2241-2245	4	24
92	Monkeys time their pauses of movement and not their movement-kinematics during a synchronization-continuation rhythmic task. <i>Journal of Neurophysiology</i> , 2014 , 111, 2138-49	3.2	23
91	Kinect v2 based system for Parkinson's disease assessment. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1279-82	0.9	23

90	Parkinson's disease assessment based on gait analysis using an innovative RGB-D camera system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3126-9</i>	0.9	23
89	Autonomic correlates of attachment insecurity in a sample of women with eating disorders. <i>Attachment and Human Development, 2011, 13, 155-67</i>	2.8	23
88	Interictal spike EEG source analysis in hypothalamic hamartoma epilepsy. <i>Clinical Neurophysiology, 2002, 113, 1961-9</i>	4.3	23
87	Automated analysis of seizure semiology and brain electrical activity in presurgery evaluation of epilepsy: A focused survey. <i>Epilepsia, 2017, 58, 1817-1831</i>	6.4	22
86	Beat-ID: Towards a computationally low-cost single heartbeat biometric identity check system based on electrocardiogram wave morphology. <i>PLoS ONE, 2017, 12, e0180942</i>	3.7	22
85	Full-body motion assessment: Concurrent validation of two body tracking depth sensors versus a gold standard system during gait. <i>Journal of Biomechanics, 2019, 87, 189-196</i>	2.9	21
84	Movement Quantification in Neurological Diseases: Methods and Applications. <i>IEEE Reviews in Biomedical Engineering, 2016, 9, 15-31</i>	6.4	20
83	Cognitive Impact and Psychophysiological Effects of Stress Using a Biomonitoring Platform. <i>International Journal of Environmental Research and Public Health, 2018, 15,</i>	4.6	20
82	System for automatic gait analysis based on a single RGB-D camera. <i>PLoS ONE, 2018, 13, e0201728</i>	3.7	19
81	Quantitative movement analysis differentiates focal seizures characterized by automatisms. <i>Epilepsy and Behavior, 2011, 20, 642-7</i>	3.2	19
80	Wearable Biomonitoring Platform for the Assessment of Stress and its Impact on Cognitive Performance of Firefighters: An Experimental Study. <i>Clinical Practice and Epidemiology in Mental Health, 2018, 14, 250-262</i>	3.2	16
79	Virtual reality in training: an experimental study with firefighters. <i>Multimedia Tools and Applications, 2020, 79, 6227-6245</i>	2.5	15
78	A novel portable, low-cost kinect-based system for motion analysis in neurological diseases. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 2339-2342</i>	0.9	14
77	Significance of lateralization of upper limb automatisms in temporal lobe epilepsy: a quantitative movement analysis. <i>Epilepsia, 2010, 51, 2140-6</i>	6.4	14
76	Ictal head turning in frontal and temporal lobe epilepsy. <i>Epilepsia, 2011, 52, 1447-51</i>	6.4	13
75	On-line control of light intensity in a microalgal bioreactor using a novel automatic system. <i>Enzyme and Microbial Technology, 2008, 42, 554-559</i>	3.8	13
74	Quantification of gait parameters with inertial sensors and inverse kinematics. <i>Journal of Biomechanics, 2018, 72, 207-214</i>	2.9	12
73	Validation of a Single RGB-D Camera for Gait Assessment of Polyneuropathy Patients. <i>Sensors, 2019, 19,</i>	3.8	12

72	A wearable approach for intraoperative physiological stress monitoring of multiple cooperative surgeons. <i>International Journal of Medical Informatics</i> , 2019 , 129, 60-68	5.3	10
71	Pubovisceralis Muscle Fiber Architecture Determination: Comparison Between Biomechanical Modeling and Diffusion Tensor Imaging. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1255-1265	4.7	9
70	Single Particle Differentiation through 2D Optical Fiber Trapping and Back-Scattered Signal Statistical Analysis: An Exploratory Approach. <i>Sensors</i> , 2018 , 18,	3.8	9
69	Movement quantification in epileptic seizures: a feasibility study for a new 3D approach. <i>Medical Engineering and Physics</i> , 2012 , 34, 938-45	2.4	9
68	Towards a movement quantification system capable of automatic evaluation of upper limb motor function after neurological injury. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 5456-60	0.9	9
67	Extracting clinical information from endoscopic capsule exams using MPEG-7 visual descriptors 2005 ,		9
66	A regression approach based on separability maximization for modeling a continuous-valued stress index from electrocardiogram data. <i>Biomedical Signal Processing and Control</i> , 2018 , 46, 33-45	4.9	8
65	Upper limb automatisms differ quantitatively in temporal and frontal lobe epilepsies. <i>Epilepsy and Behavior</i> , 2013 , 27, 404-8	3.2	8
64	Stress among on-duty firefighters: an ambulatory assessment study. <i>PeerJ</i> , 2018 , 6, e5967	3.1	8
63	Fabrication of Multimode-Single Mode Polymer Fiber Tweezers for Single Cell Trapping and Identification with Improved Performance. <i>Sensors</i> , 2018 , 18,	3.8	7
62	Automated volumetry of hippocampus is useful to confirm unilateral mesial temporal sclerosis in patients with radiologically positive findings. <i>Neuroradiology Journal</i> , 2017 , 30, 318-323	2	7
61	Changes in ST, QT and RR ECG intervals during acute stress in firefighters: a pilot study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3378-3381	0.9	6
60	Wrist rigidity assessment during Deep Brain Stimulation surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3423-6	0.9	6
59	Towards a human-robot interface based on the electrical activity of the brain 2008 ,		6
58	A Deep Learning Architecture for Epileptic Seizure Classification Based on Object and Action Recognition 2020 ,		5
57	SIGIF: a digital signal interchange format with application in neurophysiology. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 413-8	5	5
56	Authentication Architecture for eHealth Professionals. <i>Lecture Notes in Computer Science</i> , 2007 , 1583-1600		5
55	A new and fast nonlinear method for association analysis of biosignals. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 757-63	5	5

54	Biometric Authentication with Electroencephalograms: Evaluation of Its Suitability Using Visual Evoked Potentials. <i>Communications in Computer and Information Science</i> , 2011 , 290-306	0.3	5
53	An adaptive model approach for quantitative wrist rigidity evaluation during deep brain stimulation surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5809-5812	0.9	5
52	iHandU: A Novel Quantitative Wrist Rigidity Evaluation Device for Deep Brain Stimulation Surgery. <i>Sensors</i> , 2020 , 20,	3.8	4
51	Quantitative and qualitative analysis of ictal vocalization in focal epilepsy syndromes. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2018 , 60, 178-183	3.2	4
50	A systematic review on the use of immersive virtual reality to train professionals. <i>Multimedia Tools and Applications</i> , 2021 , 80, 13195-13214	2.5	4
49	Psychophysiological Stress Assessment Among On-Duty Firefighters. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 4335-4338	0.9	4
48	VitalLogger: An adaptable wearable physiology and body-area ambiance data logger for mobile applications 2017 ,		3
47	Optical fiber-based sensing method for nanoparticle detection through supervised back-scattering analysis: a potential contributor for biomedicine. <i>International Journal of Nanomedicine</i> , 2019 , 14, 2349-2369	7.2	3
46	Epileptic seizure classification using the NeuroMov database 2019 ,		3
45	iLoF: An intelligent Lab on Fiber Approach for Human Cancer Single-Cell Type Identification. <i>Scientific Reports</i> , 2020 , 10, 3171	4.9	3
44	ECG delineation and morphological analysis for firefighters tasks differentiation 2013 ,		3
43	Developmental dissociation of visual dorsal stream parvo and magnocellular representations and the functional impact of negative retinotopic BOLD responses. <i>Brain and Cognition</i> , 2013 , 83, 72-9	2.7	3
42	The first Transthyretin Familial Amyloid Polyneuropathy gait quantification study - preliminary results. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1368-1371	0.9	3
41	A 3D multimodal approach to precisely locate DBS electrodes in the basal ganglia brain region 2015 ,		3
40	ABrIL - Advanced Brain Imaging Lab : a cloud based computation environment for cooperative neuroimaging projects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 534-7	0.9	3
39	Impact of Different Stimuli on User Stress During a Virtual Firefighting Training Exercise 2020 ,		3
38	TTR-FAP Progression Evaluation Based on Gait Analysis Using a Single RGB-D Camera. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 5494-5497	0.9	3
37	Supporting the Assessment of Hereditary Transthyretin Amyloidosis Patients Based On 3-D Gait Analysis and Machine Learning. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 1350-1362	4.8	3

36	Ambulatory Assessment of Psychophysiological Stress among Police Officers: a Proof-of-Concept Study. <i>Occupational Health Science</i> , 2018 , 2, 215-231	1.5	3
35	On using permutation tests to estimate the classification significance of functional magnetic resonance imaging data. <i>Neurocomputing</i> , 2012 , 82, 224-233	5.4	2
34	SenseMyHeart: A cloud service and API for wearable heart monitors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4986-9	0.9	2
33	2D Computational Modeling of Optical Trapping Effects on Malaria-infected Red Blood Cells 2017 ,		2
32	A Wearable System for the Stress Monitoring of Air Traffic Controllers During An Air Traffic Control Refresher Training and the Trier Social Stress Test: A Comparative Study. <i>Open Bioinformatics Journal</i> , 2018 , 11, 106-116	0.8	2
31	Clinical 3-D Gait Assessment of Patients With Polyneuropathy Associated With Hereditary Transthyretin Amyloidosis. <i>Frontiers in Neurology</i> , 2020 , 11, 605282	4.1	2
30	A Textile Embedded Wearable Device for Movement Disorders Quantification. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 4559-4562	0.9	2
29	pHealth and wearable technologies: a permanent challenge. <i>Studies in Health Technology and Informatics</i> , 2012 , 177, 185-95	0.5	2
28	Validation of a low intrusiveness heart rate sensor for stress assessment. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 017004	1.5	1
27	Automated volumetry for unilateral hippocampal sclerosis detection in patients with temporal lobe epilepsy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 6339-6342	0.9	1
26	Skin temperature of the foot: comparing transthyretin Familial Amyloid Polyneuropathy and Diabetic Foot patients. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019 , 7, 504-511	0.9	1
25	2014 ,		1
24	Permutations of functional magnetic resonance imaging classification may not be normally distributed. <i>Statistical Methods in Medical Research</i> , 2017 , 26, 2567-2585	2.3	1
23	Telemedicine multimedia system to support neurodegenerative diseases participatory management. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4982-5	0.9	1
22	Heart rate variability in patients with refractory epilepsy: The influence of generalized convulsive seizures. <i>Epilepsy Research</i> , 2021 , 178, 106796	3	1
21	Agents Working on the Integration of Heterogeneous Information Sources in Distributed Healthcare Environments. <i>Lecture Notes in Computer Science</i> , 2000 , 136-145	0.9	1
20	3D-Video-fMRI: 3D Motion Tracking in a 3T MRI Environment. <i>Lecture Notes in Computer Science</i> , 2011 , 59-67	0.9	1
19	Using Permutation Tests to Study How the Dimensionality, the Number of Classes, and the Number of Samples Affect Classification Analysis. <i>Lecture Notes in Computer Science</i> , 2012 , 34-42	0.9	1

18	SnapKi-An Inertial Easy-to-Adapt Wearable Textile Device for Movement Quantification of Neurological Patients. <i>Sensors</i> , 2020 , 20,	3.8	1
17	Does the type of seizure influence heart rate variability changes?. <i>Epilepsy and Behavior</i> , 2021 , 126, 108453	5.3	0
16	iVital: A Real Time Monitoring System for First Response Teams. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 396-404	0.2	0
15	Automated and objective measures of gait dynamics in camptocormia Parkinson's Disease subthalamic deep brain stimulation. <i>Clinical Neurology and Neurosurgery</i> , 2019 , 186, 105537	2	
14	Skin Temperature of the Foot: A Comparative Study Between Familial Amyloid Polyneuropathy and Diabetic Foot Patients. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2018 , 1048-1052	0.3	
13	A connectivity-based approach to the pathophysiology of hemiballism. <i>Basal Ganglia</i> , 2016 , 6, 107-113		
12	Neurotransmitter vesicle movement dynamics in living neurons. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6265-8	0.9	
11	3D Multimodal Visualization of Subdural Electrodes with Cerebellum Removal to Guide Epilepsy Resective Surgery Procedures. <i>Lecture Notes in Computer Science</i> , 2014 , 167-174	0.9	
10	Scalp EEG recording: interictal/ictal location and spreading of epileptiform events. <i>Acta Neurologica Scandinavica</i> , 1994 , 152, 17-9	3.8	
9	Implementing a Quantified Occupational Health Sensing Platform in the Aviation Sector: an Exploratory Study in Routine Air Traffic Control Work Shifts. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 7162-7165	0.9	
8	EpiGauss: Spatio-temporal Characterization of Epileptogenic Activity Applied to Hypothalamic Hamartomas. <i>Lecture Notes in Computer Science</i> , 2006 , 680-690	0.9	
7	Authentication Architecture for Region-Wide e-Health System with Smartcards and a PKI. <i>Communications in Computer and Information Science</i> , 2008 , 479-492	0.3	
6	Multimodal Approach for Epileptic Seizure Detection in Epilepsy Monitoring Units. <i>IFMBE Proceedings</i> , 2020 , 1093-1104	0.2	
5	Functional Brain Mapping by Methods of Evolutionary Natural Selection. <i>Lecture Notes in Computer Science</i> , 2011 , 293-299	0.9	
4	Vital Responder Wearable Sensing Challenges in Uncontrolled Critical Environments. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 45-62	0.2	
3	Medical Information Extraction in European Portuguese 2013 , 607-626		
2	Subject Identification Based on Gait Using a RGB-D Camera. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 76-85	0.4	
1	On the Fly Reporting of Human Body Movement based on Kinect v2. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1546-1549	0.9	

