Joo Paulo Cunha

List of Publications by Year in Descending Order

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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	1,553	22	37
papers	citations	h-index	g-index
123	1,979	2.9 avg, IF	5.3
ext. papers	ext. citations		L-index

#	Paper	IF	Citations
107	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</i>	0.9	
106	Does the type of seizure influence heart rate variability changes?. <i>Epilepsy and Behavior</i> , 2021 , 126, 108	45.3	0
105	Heart rate variability in patients with refractory epilepsy: The influence of generalized convulsive seizures. <i>Epilepsy Research</i> , 2021 , 178, 106796	3	1
104	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
103	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
102	A Deep Learning Architecture for Epileptic Seizure Classification Based on Object and Action Recognition 2020 ,		5
101	iLoF: An intelligent Lab on Fiber Approach for Human Cancer Single-Cell Type Identification. <i>Scientific Reports</i> , 2020 , 10, 3171	4.9	3
100	iHandU: A Novel Quantitative Wrist Rigidity Evaluation Device for Deep Brain Stimulation Surgery. <i>Sensors</i> , 2020 , 20,	3.8	4
99	Impact of Different Stimuli on User Stress During a Virtual Firefighting Training Exercise 2020,		3
98	Multimodal Approach for Epileptic Seizure Detection in Epilepsy Monitoring Units. <i>IFMBE Proceedings</i> , 2020 , 1093-1104	0.2	
97	Virtual reality in training: an experimental study with firefighters. <i>Multimedia Tools and Applications</i> , 2020 , 79, 6227-6245	2.5	15
96	SnapKi-An Inertial Easy-to-Adapt Wearable Textile Device for Movement Quantification of Neurological Patients. <i>Sensors</i> , 2020 , 20,	3.8	1
95	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
94	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
93	Subject Identification Based on Gait Using a RGB-D Camera. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 76-85	0.4	
92	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	
91	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

Optical fiber-based sensing method for nanoparticle detection through supervised back-scattering 90 analysis: a potential contributor for biomedicine. International Journal of Nanomedicine, 2019, 14, 2349-2369 Epileptic seizure classification using the NeuroMov database 2019, 89 Full-body motion assessment: Concurrent validation of two body tracking depth sensors versus a 88 2.9 21 gold standard system during gait. Journal of Biomechanics, 2019, 87, 189-196 Skin temperature of the foot: comparing transthyretin Familial Amyloid Polyneuropathy and Diabetic Foot patients. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and 87 0.9 Visualization, 2019, 7, 504-511 Validation of a Single RGB-D Camera for Gait Assessment of Polyneuropathy Patients. Sensors, 86 3.8 12 2019, 19, TTR-FAP Progression Evaluation Based on Gait Analysis Using a Single RGB-D Camera. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in 85 0.9 Medicine and Biology Society Annual International Conference, 2019, 2019, 5494-5497 Optical fiber tips for biological applications: From light confinement, biosensing to bioparticles 84 4 25 manipulation. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1209-1246 Quantification of gait parameters with inertial sensors and inverse kinematics. Journal of 83 2.9 12 Biomechanics, 2018, 72, 207-214 Skin Temperature of the Foot: A Comparative Study Between Familial Amyloid Polyneuropathy and 82 0.3 Diabetic Foot Patients. Lecture Notes in Computational Vision and Biomechanics, 2018, 1048-1052 81 Wearable Health Devices-Vital Sign Monitoring, Systems and Technologies. Sensors, 2018, 18, 3.8 309 Single Particle Differentiation through 2D Optical Fiber Trapping and Back-Scattered Signal 80 3.8 9 Statistical Analysis: An Exploratory Approach. Sensors, 2018, 18, A regression approach based on separability maximization for modeling a continuous-valued stress 79 4.9 index from electrocardiogram data. Biomedical Signal Processing and Control, 2018, 46, 33-45 Quantitative and qualitative analysis of ictal vocalization in focal epilepsy syndromes. Seizure: the 78 3.2 4 Journal of the British Epilepsy Association, 2018, 60, 178-183 Fabrication of Multimode-Single Mode Polymer Fiber Tweezers for Single Cell Trapping and 3.8 77 Identification with Improved Performance. Sensors, 2018, 18, System for automatic gait analysis based on a single RGB-D camera. PLoS ONE, 2018, 13, e0201728 76 3.7 19 Wearable Biomonitoring Platform for the Assessment of Stress and its Impact on Cognitive Performance of Firefighters: An Experimental Study. Clinical Practice and Epidemiology in Mental 16 75 3.2 Health, 2018, 14, 250-262 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. Open Bioinformatics 0.8 2 74 Journal, 2018, 11, 106-116 Ambulatory Assessment of Psychophysiological Stress among Police Officers: a Proof-of-Concept 1.5 73 Study. Occupational Health Science, 2018, 2, 215-231

72	Stress among on-duty firefighters: an ambulatory assessment study. <i>PeerJ</i> , 2018 , 6, e5967	3.1	8
71	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	
70	Cognitive Impact and Psychophysiological Effects of Stress Using a Biomonitoring Platform. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	20
69	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
68	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
67	Validation of a low intrusiveness heart rate sensor for stress assessment. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 017004	1.5	1
66	VitalLogger: An adaptable wearable physiology and body-area ambiance data logger for mobile applications 2017 ,		3
65	Automated analysis of seizure semiology and brain electrical activity in presurgery evaluation of epilepsy: A focused survey. <i>Epilepsia</i> , 2017 , 58, 1817-1831	6.4	22
64	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
63	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
62	A diffusion-based connectivity map of the GPi for optimised stereotactic targeting in DBS. <i>NeuroImage</i> , 2017 , 144, 83-91	7.9	27
61	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
60	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
59	2D Computational Modeling of Optical Trapping Effects on Malaria-infected Red Blood Cells 2017 ,		2
58	Beat-ID: Towards a computationally low-cost single heartbeat biometric identity check system based on electrocardiogram wave morphology. <i>PLoS ONE</i> , 2017 , 12, e0180942	3.7	22
57	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
56	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
55	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</i> 2016 , 2016, 2339-2342	0.9	14

A connectivity-based approach to the pathophysiology of hemiballism. *Basal Ganglia*, **2016**, 6, 107-113

53	NeuroKinect: A Novel Low-Cost 3Dvideo-EEG System for Epileptic Seizure Motion Quantification. <i>PLoS ONE</i> , 2016 , 11, e0145669	3.7	31
52	An adaptive model approach for quantitative wrist rigidity evaluation during deep brain stimulation surgery. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 5809-5812	0.9	5
51	Movement Quantification in Neurological Diseases: Methods and Applications. <i>IEEE Reviews in Biomedical Engineering</i> , 2016 , 9, 15-31	6.4	20
50	. IEEE Transactions on Intelligent Transportation Systems, 2015 , 16, 3294-3303	6.1	33
49	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	
48	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
47	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
46	A 3D multimodal approach to precisely locate DBS electrodes in the basal ganglia brain region 2015 ,		3
45	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
44	Telemedicine multimedia system to support neurodegenerative diseases participatory management. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015,	0.9	1
43	2015, 4982-5 2014,		1
42	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
41	Connectivity patterns of pallidal DBS electrodes in focal dystonia: a diffusion tensor tractography study. <i>NeuroImage</i> , 2014 , 84, 435-42	7.9	39
40	Parkinson's disease assessment based on gait analysis using an innovative RGB-D camera system. 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	0.9	23
39	ABrIL - Advanced Brain Imaging Lab : a cloud based computation environment for cooperative neuroimaging projects. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
38	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	
37	ECG delineation and morphological analysis for firefighters tasks differentiation 2013,		3

36	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
35	Upper limb automatisms differ quantitatively in temporal and frontal lobe epilepsies. <i>Epilepsy and Behavior</i> , 2013 , 27, 404-8	3.2	8
34	Medical Information Extraction in European Portuguese 2013 , 607-626		
33	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
32	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
31	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
30	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
29	Vital Responder IWearable 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	
28	pHealth and wearable technologies: a permanent challenge. <i>Studies in Health Technology and Informatics</i> , 2012 , 177, 185-95	0.5	2
27	Towards a movement quantification system capable of automatic evaluation of upper limb motor function after neurological injury. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International	0.9	9
26	Quantitative movement analysis differentiates focal seizures characterized by automatisms. <i>Epilepsy and Behavior</i> , 2011 , 20, 642-7	3.2	19
25	Ictal head turning in frontal and temporal lobe epilepsy. <i>Epilepsia</i> , 2011 , 52, 1447-51	6.4	13
24	Autonomic correlates of attachment insecurity in a sample of women with eating disorders. <i>Attachment and Human Development</i> , 2011 , 13, 155-67	2.8	23
23	. IEEE Sensors Journal, 2011 , 11, 2241-2245	4	24
22	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
21	3D-Video-fMRI: 3D Motion Tracking in a 3T MRI Environment. <i>Lecture Notes in Computer Science</i> , 2011 , 59-67	0.9	1
20	Functional Brain Mapping by Methods of Evolutionary Natural Selection. <i>Lecture Notes in Computer Science</i> , 2011 , 293-299	0.9	
19	Significance of lateralization of upper limb automatisms in temporal lobe epilepsy: a quantitative movement analysis. <i>Epilepsia</i> , 2010 , 51, 2140-6	6.4	14

18	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
17	Towards a human-robot interface based on the electrical activity of the brain 2008,		6
16	On-line control of light intensity in a microalgal bioreactor using a novel automatic system. <i>Enzyme</i> and Microbial Technology, 2008 , 42, 554-559	3.8	13
15	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	
14	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
13	A novel dry active electrode for EEG recording. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 162-5	5	99
12	Authentication Architecture for eHealth Professionals. Lecture Notes in Computer Science, 2007, 1583-1	60.0	5
11	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
10	EpiGauss: Spatio-temporal Characterization of Epiletogenic Activity Applied to Hypothalamic Hamartomas. <i>Lecture Notes in Computer Science</i> , 2006 , 680-690	0.9	
9	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
8	Extracting clinical information from endoscopic capsule exams using MPEG-7 visual descriptors 2005 ,		9
7	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
6	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
5	Interictal spike EEG source analysis in hypothalamic hamartoma epilepsy. <i>Clinical Neurophysiology</i> , 2002 , 113, 1961-9	4.3	23
4	A new and fast nonlinear method for association analysis of biosignals. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 757-63	5	5
3	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
2	SIGIF: a digital signal interchange format with application in neurophysiology. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 413-8	5	5
1	Scalp EEG recording: interictal/ictal location and spreading of epileptiform events. <i>Acta Neurologica Scandinavica</i> , 1994 , 152, 17-9	3.8	