

Pablo Casaseca-de-la-Higuera

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

793
citations

623188
14
h-index

525886
27
g-index

61
all docs

61
docs citations

61
times ranked

981
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple comparator classifier framework for accelerometer-based fall detection and diagnostic. Applied Soft Computing Journal, 2016, 39, 94-103.	4.1	96
2	Anomaly Detection in Network Traffic Based on Statistical Inference and alpha-Stable Modeling. IEEE Transactions on Dependable and Secure Computing, 2011, 8, 494-509.	3.7	73
3	Robust Detection of Audio-Cough Events Using Local Hu Moments. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 184-196.	3.9	71
4	Unsupervised 4D myocardium segmentation with a Markov Random Field based deformable model. Medical Image Analysis, 2011, 15, 283-301.	7.0	51
5	Weaning From Mechanical Ventilation: A Retrospective Analysis Leading to a Multimodal Perspective. IEEE Transactions on Biomedical Engineering, 2006, 53, 1330-1345.	2.5	47
6	Stochastic Modeling of the PPG Signal: A Synthesis-by-Analysis Approach With Applications. IEEE Transactions on Biomedical Engineering, 2013, 60, 2432-2441.	2.5	38
7	A novel infrared video surveillance system using deep learning based techniques. Multimedia Tools and Applications, 2018, 77, 26657-26676.	2.6	34
8	A Machine Hearing System for Robust Cough Detection Based on a High-Level Representation of Band-Specific Audio Features. IEEE Transactions on Biomedical Engineering, 2019, 66, 2319-2330.	2.5	34
9	Efficient <i>h</i> -NN Implementation for Real-Time Detection of Cough Events in Smartphones. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1662-1671.	3.9	31
10	Nonlinear analysis of actigraphic signals for the assessment of the attention-deficit/hyperactivity disorder (ADHD). Medical Engineering and Physics, 2012, 34, 1317-1329.	0.8	30
11	Matching pursuit-based compressive sensing in a wearable biomedical accelerometer fall diagnosis device. Biomedical Signal Processing and Control, 2017, 33, 96-108.	3.5	30
12	Reconstruction techniques for cardiac cine MRI. Insights Into Imaging, 2019, 10, 100.	1.6	25
13	Audio-cough event detection based on moment theory. Applied Acoustics, 2018, 135, 124-135.	1.7	22
14	A Markov Random Field Approach for Topology-Preserving Registration: Application to Object-Based Tomographic Image Interpolation. IEEE Transactions on Image Processing, 2012, 21, 2047-2061.	6.0	18
15	Objective ADHD Diagnosis Using Convolutional Neural Networks Over Daily-Life Activity Records. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2690-2700.	3.9	16
16	Group-Slicer: A collaborative extension of 3D-Slicer. Journal of Biomedical Informatics, 2005, 38, 431-442.	2.5	13
17	Characterization of Received Signal Strength Perturbations Using Allan Variance. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 873-889.	2.6	13
18	Smartphone-based object recognition with embedded machine learning intelligence for unmanned aerial vehicles. Journal of Field Robotics, 2020, 37, 404-420.	3.2	13

#	ARTICLE	IF	CITATIONS
19	Efficient computation of image moments for robust cough detection using smartphones. Computers in Biology and Medicine, 2018, 100, 176-185.	3.9	12
20	Air infiltration monitoring using thermography and neural networks. Energy and Buildings, 2019, 191, 187-199.	3.1	10
21	A Multichannel Model-Based Methodology for Extubation Readiness Decision of Patients on Weaning Trials. IEEE Transactions on Biomedical Engineering, 2009, 56, 1849-1863.	2.5	9
22	HLS based hardware acceleration on the zynq SoC: A case study for fall detection system. , 2014, , .		8
23	Effect of downsampling and compressive sensing on audio-based continuous cough monitoring. , 2015, 2015, 6231-5.		8
24	Improving Harmonic Phase Imaging by the Windowed Fourier Transform. , 2011, , .		7
25	Effect of importance sampling on robust segmentation of audio-cough events in noisy environments. , 2016, 2016, 3740-3744.		7
26	Efficient QoE-Aware Scheme for Video Quality Switching Operations in Dynamic Adaptive Streaming. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-23.	3.0	7
27	Fast 4D elastic group-wise image registration. Convolutional interpolation revisited. Computer Methods and Programs in Biomedicine, 2021, 200, 105812.	2.6	6
28	A Comparative Study on Microcalcification Detection Methods with Posterior Probability Estimation based on Gaussian Mixture Models. , 2005, 2006, 49-54.		5
29	Automatic diagnosis of ADHD based on multichannel nonlinear analysis of actimetry registries. , 2012, 2012, 4204-7.		5
30	Fast calculation of $\hat{\mu}$ -stable density functions based on off-line precomputations. Application to ML parameter estimation. , 2015, 38, 1-12.		5
31	Ambient Surfaces. , 2016, , .		5
32	Groupwise Non-Rigid Registration with Deep Learning: An Affordable Solution Applied to 2D Cardiac Cine MRI Reconstruction. Entropy, 2020, 22, 687.	1.1	5
33	Strain Rate Tensor estimation in cine cardiac MRI based on elastic image registration. , 2008, , .		3
34	Characterization of activity epochs in actimetric registries for infantile colic diagnosis: Identification and feature extraction based on wavelets and symbolic dynamics. , 2010, 2010, 2383-6.		3
35	DWI acquisition schemes and Diffusion Tensor estimation: A simulation-based study. , 2010, 2010, 3317-20.		3
36	Automatic diagnosis of ADHD based on nonlinear analysis of actimetry registries. , 2011, , .		3

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37	A Second Order Multi-Stencil Fast Marching Method With a Non-Constant Local Cost Model. IEEE Transactions on Image Processing, 2019, 28, 1967-1979.	6.0	3
38	DoA Prediction Based Beamforming with Low Training Overhead for Highly-Mobile UAV Communication with Cellular Networks. Applied Sciences (Switzerland), 2020, 10, 4420.	1.3	3
39	Optimal real-time estimation in diffusion tensor imaging. Magnetic Resonance Imaging, 2012, 30, 506-517.	1.0	2
40	On the study of wireless signal noise for designing network infrastructure of knowledge management systems. , 2015, , .		2
41	Systematic infrared image quality improvement using deep learning based techniques. Proceedings of SPIE, 2016, , .	0.8	2
42	Compressed UAV sensing for flood monitoring by solving the continuous travelling salesman problem over hyperspectral maps. , 2018, , .		2
43	Endocardium and Epicardium Contour Modeling Based on Markov Random Fields and Active Contours. , 2006, 2006, 928-31.		1
44	Mutations in exons of the CYP17-II gene affect sex steroid concentration in male Japanese flounder (Paralichthys olivaceus). Journal of Ocean University of China, 2012, 11, 99-104.	0.6	1
45	Automatic detection of wakefulness and rest intervals in actigraphic signals: A data-driven approach. Medical Engineering and Physics, 2014, 36, 1585-1592.	0.8	1
46	A new flower pollination algorithm for equalization in synchronous DS/CDMA multiuser communication systems. Soft Computing, 2020, 24, 13069-13083.	2.1	1
47	A Reconfigurable Supporting Connected Health Environment for People with Chronic Diseases. Advances in Healthcare Information Systems and Administration Book Series, 2015, , 332-352.	0.2	1
48	Realistic log-compressed law for ultrasound image recovery. , 2011, , .		0
49	A magnetic resonance software simulator for the evaluation of myocardial deformation estimation. Medical Engineering and Physics, 2013, 35, 1331-1340.	0.8	0
50	An efficient user-customisable multiresolution classifier fall detection and diagnostic system. , 2014, , .		0
51	A stochastic modelling framework for the reconstruction of cardiovascular signals. , 2014, 2014, 676-9.		0
52	Towards Optimal Power Splitting in Simultaneous Power and Information Transmission. , 2018, , .		0
53	Physics-Informed Self-supervised Deep Learning Reconstruction for Accelerated First-Pass Perfusion Cardiac MRI. Lecture Notes in Computer Science, 2021, , 86-95.	1.0	0
54	Strain Rate Tensor Estimation in Cine Cardiac MRI Based on Elastic Image Registration. Advances in Pattern Recognition, 2009, , 355-379.	0.8	0

#	ARTICLE	IF	CITATIONS
55	A Reconfigurable Supporting Connected Health Environment for People With Chronic Diseases. , 2018, , 1436-1457.		0
56	Evaluation in a Real Environment of a Trainable Cough Monitoring App for Smartphones. IFMBE Proceedings, 2020, , 1175-1180.	0.2	0
57	A Reconfigurable Supporting Connected Health Environment for People With Chronic Diseases. , 0, , 1064-1085.		0