

Ruben Medina

List of Publications by Year in descending order

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times ranked

389
citing authors

#	ARTICLE	IF	CITATIONS
1	Poincaré Plot Features and Statistical Features From Current and Vibration Signals for Fault Severity Classification of Helical Gear Tooth Breaks. Journal of Computing and Information Science in Engineering, 2023, 23, .	2.7	4
2	Gear and bearing fault classification under different load and speed by using Poincaré plot features and SVM. Journal of Intelligent Manufacturing, 2022, 33, 1031-1055.	7.3	22
3	Reciprocating Compressor Multi-Fault Classification Using Symbolic Dynamics and Complex Correlation Measure. Applied Sciences (Switzerland), 2020, 10, 2512.	2.5	16
4	Vibration signal analysis using symbolic dynamics for gearbox fault diagnosis. International Journal of Advanced Manufacturing Technology, 2019, 104, 2195-2214.	3.0	23
5	Deep Learning-Based Gear Pitting Severity Assessment Using Acoustic Emission, Vibration and Currents Signals. , 2019, , .		9
6	ECG Multilead QT Interval Estimation Using Support Vector Machines. Journal of Healthcare Engineering, 2019, 2019, 1-14.	1.9	5
7	An automatic technique for left ventricle segmentation from msct cardiac volumes. Journal of Physics: Conference Series, 2019, 1160, 012001.	0.4	3
8	A LSTM Neural Network Approach using Vibration Signals for Classifying Faults in a Gearbox. , 2019, , .		3
9	Level Set Segmentation of Footprint Images Aimed at Insole Design. , 2018, , .		0
10	Detecting Activation in fMRI Data: An Approach Based on Sparse Representation of BOLD Signal. Mathematical Problems in Engineering, 2018, 2018, 1-15.	1.1	0
11	Gearbox fault classification using dictionary sparse based representations of vibration signals. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3605-3618.	1.4	9
12	Footprint analysis using a low cost photo-podoscope. , 2017, , .		3
13	Accuracy of connected confidence left ventricle segmentation in 3-D multi-slice computerized tomography images. , 2017, , .		0
14	Poincaré plot features from vibration signal for gearbox fault diagnosis. , 2017, , .		3
15	A Dictionary Sparse Based Representation of Vibration Signals for Gearbox Fault Detection. , 2017, , .		0
16	Characterizing artifacts in RR stress test time series. , 2016, 2016, 692-695.		2
17	Left ventricle myocardium segmentation in multi-slice computerized tomography. , 2016, , .		0
18	Video and imaging gastroenterological medical equipment oriented to telemedicine. , 2016, , .		0

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19	Cardiac Motion Estimation in Magnetic Resonance Images Using Optical Flow. IEEE Latin America Transactions, 2016, 14, 2807-2816.	1.6	3
20	Mobile teleradiology system suitable for m-health services supporting content and semantic based image retrieval on a grid infrastructure. , 2016, 2016, 5380-5383.		2
21	Optical Flow as a Tool for Cardiac Motion Estimation. , 2015, , .		1
22	Open source cardiology electronic health record development for DIGICARDIAC implementation. , 2015, , .		1
23	Classification of LV wall motion in cardiac MRI using kernel Dictionary Learning with a parametric approach. , 2015, 2015, 7292-5.		7
24	Level set algorithms comparison for multi-slice CT left ventricle segmentation. , 2015, , .		2
25	Semiautomatic validation of RR time series in an ECG stress test database. , 2015, , .		2
26	CinC Challenge 2013: comparing three algorithms to extract fetal ECG. , 2015, , .		0
27	Hepatic Steatosis detection using the co-occurrence matrix in tomography and ultrasound images. , 2015, , .		11
28	2-D segmentation of left ventricle in magnetic resonance images based on an optical flow algorithm. , 2013, , .		0
29	Sparse based optical flow estimation in cardiac magnetic resonance images. Proceedings of SPIE, 2013, , .	0.8	0
30	Similarity enhancement for automatic segmentation of cardiac structures in computed tomography volumes. , 2011, 2011, 8094-7.		5
31	A sparse based approach for detecting activations in fMRI. , 2011, 2011, 7816-9.		1
32	Three-dimensional Segmentation of Ventricular Heart Chambers from Multi-slice Computerized Tomography: An Hybrid Approach. Communications in Computer and Information Science, 2011, , 287-301.	0.5	6
33	Improving Ventricle Detection in 3-D Cardiac Multislice Computerized Tomography Images. Communications in Computer and Information Science, 2011, , 170-183.	0.5	2
34	Accuracy of advanced versus strictly conventional 12-lead ECG for detection and screening of coronary artery disease, left ventricular hypertrophy and left ventricular systolic dysfunction. BMC Cardiovascular Disorders, 2010, 10, 28.	1.7	68
35	Myocardial border detection from ventriculograms using support vector machines and real-coded genetic algorithms. Computers in Biology and Medicine, 2010, 40, 446-455.	7.0	4
36	Inferring the left ventricle dynamical behavior using a free-form deformations model. Mathematics and Computers in Simulation, 2009, 79, 1824-1833.	4.4	1

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37	An unsupervised clustering framework for automatic segmentation of left ventricle cavity in human heart angiograms. Computerized Medical Imaging and Graphics, 2008, 32, 396-408.	5.8	8
38	A 3-D Multi-modality Image Framework for Left Ventricle Motion Analysis. , 2008, , .		3
39	Using morphological and clustering analysis for left ventricle detection in MSCT cardiac images. , 2008, , .		1
40	Edge Detection in Ventriculograms Using Support Vector Machine Classifiers and Deformable Models. , 2007, , 793-802.		2
41	Model-based image analysis of the cardiac function. IFMBE Proceedings, 2007, , 329-333.	0.3	0
42	Iris images based personal identification. IFMBE Proceedings, 2007, , 346-350.	0.3	0
43	An approach to coronary vessels detection in X-ray rotational angiography. IFMBE Proceedings, 2007, , 254-258.	0.3	2
44	A Level-set Segmentation Approach for 4-D Cardiac Images. IFMBE Proceedings, 2007, , 286-289.	0.3	1
45	Markov random field modeling for three-dimensional reconstruction of the left ventricle in cardiac angiography. IEEE Transactions on Medical Imaging, 2006, 25, 1087-1100.	8.9	10
46	A Clustering Based Approach for Automatic Image Segmentation: An Application to Biplane Ventriculograms. Lecture Notes in Computer Science, 2006, , 316-325.	1.3	4
47	A 2-D Active Appearance Model For Prostate Segmentation in Ultrasound Images. , 2005, 2005, 3363-6.		11
48	Estimation of the Deformation Field for the Left Ventricle Walls in 4-D Multislice Computerized Tomography. Lecture Notes in Computer Science, 2005, , 348-359.	1.3	2
49	Ultrasound-based liver computer assisted surgery. , 2004, 2004, 1774-7.		0
50	Three-Dimensional Reconstruction of the Left Ventricle From Two Angiographic Views: An Evidence Combination Approach. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2004, 34, 359-370.	2.9	9
51	Curvature and torsion estimation for coronary-artery motion analysis. , 2004, , .		9
52	Three methods for accurate quantification of plaque volume in coronary arteries. International Journal of Cardiovascular Imaging, 2003, 19, 301-311.	0.6	11
53	Using known motion fields for image separation in transparency. Pattern Recognition Letters, 2003, 24, 597-605.	4.2	10
54	Integrated system for quantitative analysis of coronary plaque via data fusion of biplane angiography and intravascular ultrasound. International Congress Series, 2003, 1256, 1117-1122.	0.2	4

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55	Impact of local vessel curvature on the circumferential plaque distribution in coronary arteries. , 2003, , .		6
56	Period estimation using minimum entropy deconvolution (MED). Signal Processing, 1995, 41, 91-100.	3.7	23
57	An evidence combination approach to reconstruction of the left ventricle from two angiographic views. , 0, , .		2
58	Three-dimensional reconstruction of the left ventricle from two angiographic views. , 0, , .		3
59	Reconstruction of three-dimensional cardiac shapes in biplane angiography: a fuzzy and evolutionary approach. , 0, , .		1
60	Multiple motion estimation and segmentation in transparency. , 0, , .		8
61	Volumetric quantification of coronary arteries reconstructed by fusion between intravascular ultrasound and biplane angiography. , 0, , .		6
62	Augmented vision for minimally invasive abdominal cancer surgery. , 0, , .		2
63	Recovery of two transparent primitive images from two frames. , 0, , .		0
64	Quantitative analysis of circumferential plaque distribution in human coronary arteries in relation to local vessel curvature. , 0, , .		1