

Ruben Medina

List of Publications by Year in descending order

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64
papers

357
citations

1040056

9
h-index

996975

15
g-index

64
all docs

64
docs citations

64
times ranked

389
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Period estimation using minimum entropy deconvolution (MED). Signal Processing, 1995, 41, 91-100.	3.7	23
3	Vibration signal analysis using symbolic dynamics for gearbox fault diagnosis. International Journal of Advanced Manufacturing Technology, 2019, 104, 2195-2214.	3.0	23
4	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
5	Reciprocating Compressor Multi-Fault Classification Using Symbolic Dynamics and Complex Correlation Measure. Applied Sciences (Switzerland), 2020, 10, 2512.	2.5	16
6	Three methods for accurate quantification of plaque volume in coronary arteries. International Journal of Cardiovascular Imaging, 2003, 19, 301-311.	0.6	11
7	A 2-D Active Appearance Model For Prostate Segmentation in Ultrasound Images. , 2005, 2005, 3363-6.		11
8	Hepatic Steatosis detection using the co-occurrence matrix in tomography and ultrasound images. , 2015, , .		11
9	Using known motion fields for image separation in transparency. Pattern Recognition Letters, 2003, 24, 597-605.	4.2	10
10	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
11	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
12	Curvature and torsion estimation for coronary-artery motion analysis. , 2004, , .		9
13	Gearbox fault classification using dictionary sparse based representations of vibration signals. Journal of Intelligent and Fuzzy Systems, 2018, 34, 3605-3618.	1.4	9
14	Deep Learning-Based Gear Pitting Severity Assessment Using Acoustic Emission, Vibration and Currents Signals. , 2019, , .		9
15	Multiple motion estimation and segmentation in transparency. , 0, , .		8
16	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
17	Classification of LV wall motion in cardiac MRI using kernel Dictionary Learning with a parametric approach. , 2015, 2015, 7292-5.		7
18	Volumetric quantification of coronary arteries reconstructed by fusion between intravascular ultrasound and biplane angiography. , 0, , .		6

#	ARTICLE	IF	CITATIONS
19	Impact of local vessel curvature on the circumferential plaque distribution in coronary arteries. , 2003, , .		6
20	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
21	Similarity enhancement for automatic segmentation of cardiac structures in computed tomography volumes. , 2011, 2011, 8094-7.		5
22	ECG Multilead QT Interval Estimation Using Support Vector Machines. Journal of Healthcare Engineering, 2019, 2019, 1-14.	1.9	5
23	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
24	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
25	A Clustering Based Approach for Automatic Image Segmentation: An Application to Biplane Ventriculograms. Lecture Notes in Computer Science, 2006, , 316-325.	1.3	4
26	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
27	Three-dimensional reconstruction of the left ventricle from two angiographic views. , 0, , .		3
28	A 3-D Multi-modality Image Framework for Left Ventricle Motion Analysis. , 2008, , .		3
29	Cardiac Motion Estimation in Magnetic Resonance Images Using Optical Flow. IEEE Latin America Transactions, 2016, 14, 2807-2816.	1.6	3
30	Footprint analysis using a low cost photo-podoscope. , 2017, , .		3
31	Poincaré plot features from vibration signal for gearbox fault diagnosis. , 2017, , .		3
32	An automatic technique for left ventricle segmentation from msct cardiac volumes. Journal of Physics: Conference Series, 2019, 1160, 012001.	0.4	3
33	A LSTM Neural Network Approach using Vibration Signals for Classifying Faults in a Gearbox. , 2019, , .		3
34	An evidence combination approach to reconstruction of the left ventricle from two angiographic views. , 0, , .		2
35	Augmented vision for minimally invasive abdominal cancer surgery. , 0, , .		2
36	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

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37	Level set algorithms comparison for multi-slice CT left ventricle segmentation. , 2015, , .		2
38	Semiautomatic validation of RR time series in an ECG stress test database. , 2015, , .		2
39	Characterizing artifacts in RR stress test time series. , 2016, 2016, 692-695.		2
40	Mobile teleradiology system suitable for m-health services supporting content and semantic based image retrieval on a grid infrastructure. , 2016, 2016, 5380-5383.		2
41	Edge Detection in Ventriculograms Using Support Vector Machine Classifiers and Deformable Models. , 2007, , 793-802.		2
42	Improving Ventricle Detection in 3D Cardiac Multislice Computerized Tomography Images. Communications in Computer and Information Science, 2011, , 170-183.	0.5	2
43	An approach to coronary vessels detection in X-ray rotational angiography. IFMBE Proceedings, 2007, , 254-258.	0.3	2
44	Reconstruction of three-dimensional cardiac shapes in biplane angiography: a fuzzy and evolutionary approach. , 0, , .		1
45	Quantitative analysis of circumferential plaque distribution in human coronary arteries in relation to local vessel curvature. , 0, , .		1
46	Using morphological and clustering analysis for left ventricle detection in MSCT cardiac images. , 2008, , .		1
47	Inferring the left ventricle dynamical behavior using a free-form deformations model. Mathematics and Computers in Simulation, 2009, 79, 1824-1833.	4.4	1
48	A sparse based approach for detecting activations in fMRI. , 2011, 2011, 7816-9.		1
49	Optical Flow as a Tool for Cardiac Motion Estimation. , 2015, , .		1
50	Open source cardiology electronic health record development for DIGICARDIAC implementation. , 2015, , .		1
51	A Level-set Segmentation Approach for 4-D Cardiac Images. IFMBE Proceedings, 2007, , 286-289.	0.3	1
52	Recovery of two transparent primitive images from two frames. , 0, , .		0
53	Ultrasound-based liver computer assisted surgery. , 2004, 2004, 1774-7.		0
54	2-D segmentation of left ventricle in magnetic resonance images based on an optical flow algorithm. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
55	Sparse based optical flow estimation in cardiac magnetic resonance images. Proceedings of SPIE, 2013, , .	0.8	0
56	CinC Challenge 2013: comparing three algorithms to extract fetal ECG. , 2015, , .		0
57	Left ventricle myocardium segmentation in multi-slice computerized tomography. , 2016, , .		0
58	Video and imaging gastroenterological medical equipment oriented to telemedicine. , 2016, , .		0
59	Accuracy of connected confidence left ventricle segmentation in 3-D multi-slice computerized tomography images. , 2017, , .		0
60	A Dictionary Sparse Based Representation of Vibration Signals for Gearbox Fault Detection. , 2017, , .		0
61	Levelâ€“Set Segmentation of Footprint Images Aimed at Insole Design. , 2018, , .		0
62	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
63	Model-based image analysis of the cardiac function. IFMBE Proceedings, 2007, , 329-333.	0.3	0
64	Iris images based personal identification. IFMBE Proceedings, 2007, , 346-350.	0.3	0