

R Shantha Selvakumari

List of Publications by Year in descending order

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695
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759055

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82
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82
docs citations

82
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Logarithmic Mean-Based Thresholding for SAR Image Change Detection. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1726-1728.	1.4	57
2	Patient-Specific Seizure Detection Method using Hybrid Classifier with Optimized Electrodes. Journal of Medical Systems, 2019, 43, 121.	2.2	53
3	Genetic algorithm with logistic regression feature selection for Alzheimer's disease classification. Neural Computing and Applications, 2021, 33, 8435-8444.	3.2	35
4	Spatial Fuzzy C Means and Expectation Maximization Algorithms with Bias Correction for Segmentation of MR Brain Images. Journal of Medical Systems, 2017, 41, 15.	2.2	32
5	Gabor filter based change detection in SAR images by KI thresholding. Optik, 2017, 130, 114-122.	1.4	26
6	Directionlet transform based sharpening and enhancement of mammographic X-ray images. Biomedical Signal Processing and Control, 2013, 8, 391-399.	3.5	24
7	Fuzzy C means integrated with spatial information and contrast enhancement for segmentation of MR brain images. International Journal of Imaging Systems and Technology, 2016, 26, 116-123.	2.7	24
8	Fused Mel Feature sets based Text-Independent Speaker Identification using Gaussian Mixture Model. Procedia Engineering, 2012, 30, 319-326.	1.2	23
9	Artificial Neural Network Based Automatic Cardiac Abnormalities Classification. , 0, , .		22
10	Seizure detection in EEG using time frequency analysis and SVM. , 2011, , .		22
11	Interfacing of MEMS motion sensor with FPGA using I2C protocol. , 2017, , .		21
12	Fruit Classification using Statistical Features in SVM Classifier. , 2018, , .		18
13	A novel algorithm for wavelet based ECG signal coding. Computers and Electrical Engineering, 2007, 33, 186-194.	3.0	17
14	A review on coupled and uncoupled multicore fibers for future ultra-high capacity optical communication. Optik, 2019, 199, 163341.	1.4	16
15	Noninvasive method of epileptic detection using DWT and generalized regression neural network. Soft Computing, 2019, 23, 2645-2653.	2.1	15
16	Sharpening enhancement of ultrasound images using contourlet transform. Optik, 2013, 124, 4789-4792.	1.4	14
17	Sharpening enhancement of Computed Tomography (CT) images using Hyperbolic Secant Square filter. Optik, 2013, 124, 2121-2124.	1.4	13
18	Unsupervised change detection of flood affected areas in SAR images using Rayleigh-based Bayesian thresholding. IET Radar, Sonar and Navigation, 2018, 12, 515-522.	0.9	13

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19	Noise Robust Speaker Identification Using RASTA MFCC Feature with Quadrilateral Filter Bank Structure. <i>Wireless Personal Communications</i> , 2016, 91, 1321-1333.	1.8	12
20	Classification of MR Brain Images for Detection of Tumor with Transfer Learning from Pre-trained CNN Models. , 2019, , .		12
21	Edge detection for illumination varying images using wavelet similarity. <i>IET Image Processing</i> , 2014, 8, 261-268.	1.4	11
22	Assessment of dysarthric speech using Elman back propagation network (recurrent network) for speech recognition. <i>International Journal of Speech Technology</i> , 2016, 19, 577-583.	1.4	11
23	DE-NOISING AND BASELINE WANDERING REMOVAL OF ELECTROCARDIOGRAM USING DOUBLE DENSITY DISCRETE WAVELET. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2007, 05, 399-415.	0.9	10
24	VLSI architecture for LGXP texture for face recognition. <i>Journal of Intelligent and Fuzzy Systems</i> , 2014, 27, 2635-2647.	0.8	10
25	Classification of cardiac arrhythmias based on morphological and rhythmic features. <i>International Journal of Biomedical Engineering and Technology</i> , 2014, 14, 192.	0.2	10
26	SAR image despeckling using heavy-tailed Burr distribution. <i>Signal, Image and Video Processing</i> , 2017, 11, 49-55.	1.7	10
27	Study on Reduction of Machining Time in CNC Turning Centre by Genetic Algorithm. , 2007, , .		9
28	Behavior architecture controller for an autonomous robot navigation in an unknown environment to perform a given task. <i>International Journal of Physical Sciences</i> , 2015, 10, 182-191.	0.1	9
29	Wavelets for Improving Spectral Efficiency in a Digital Communication System. , 0, , .		8
30	A novel 3-level energy heterogeneity clustering protocol with hybrid routing for a concentric circular wireless sensor network. <i>Cluster Computing</i> , 2019, 22, 11101-11108.	3.5	8
31	Double Stage Gaussian Filter for Better Underwater Image Enhancement. <i>Wireless Personal Communications</i> , 2020, 114, 2909-2921.	1.8	7
32	WAVELET-BASED BASE LINE WANDERING REMOVAL AND R PEAK AND QRS COMPLEX DETECTION. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2007, 05, 927-939.	0.9	6
33	XAdap: An Adaptive Huffman Coding on Markup Languages. , 2007, , .		6
34	Design of Optimal Discrete Wavelet for ECG Signal Using Orthogonal Filter Bank. , 2007, , .		6
35	Contourlet transform-based sharpening enhancement of retinal images and vessel extraction application. <i>Biomedizinische Technik</i> , 2013, 58, 87-96.	0.9	6
36	Myocardial infarction detection and heart patient identity verification. , 2016, , .		6

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37	Comparative study of statistical modeling of wavelet coefficients for SAR image despeckling. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750003.	0.9	6
38	Gaussian Mixture Model with the Inclusion of Spatial Factor and Pixel Re-labelling: Application to MR Brain Image Segmentation. Arabian Journal for Science and Engineering, 2017, 42, 595-605.	1.7	6
39	Eagle Eye CBVR Based on Unique Key Frame Extraction and Deep Belief Neural Network. Wireless Personal Communications, 2021, 116, 411-441.	1.8	6
40	A FRAMEWORK FOR MULTILINGUAL TEXT- INDEPENDENT SPEAKER IDENTIFICATION SYSTEM. Journal of Computer Science, 2014, 10, 178-189.	0.5	4
41	Efficient 2-level Energy Heterogeneity Clustering Protocols for Wireless Sensor Network. Indian Journal of Science and Technology, 2016, 9, .	0.5	4
42	Labelling of Hindi Speech. IETE Journal of Research, 2016, 62, 146-153.	1.8	4
43	Very large-scale integration architecture for wavelet-based ECG signal adaptive coder. IET Signal Processing, 2019, 13, 56-64.	0.9	4
44	Audio Signal Classification Based on Optimal Wavelet and Support Vector Machine. , 2007, , .		3
45	Robust speaker identification using vocal source information. , 2012, , .		3
46	Unsupervised edge enhancement algorithm for SAR images using exploitation of wavelet transform coefficients. , 2014, , .		3
47	A review on speech enhancement algorithms and why to combine with environment classification. International Journal of Modern Physics C, 2014, 25, 1430002.	0.8	3
48	A New Energy Efficient Clustering Protocol for a Novel Concentric Circular Wireless Sensor Network. Wireless Personal Communications, 2018, 103, 2455-2473.	1.8	3
49	A Monopole Antenna with Offset-fed Microstrip Line for Wireless Application. IETE Journal of Research, 0, , 1-7.	1.8	3
50	Performance evaluation of hybrid modulation techniques for high speed radio over fiber communication system. International Journal of Modern Physics C, 2019, 30, 1950070.	0.8	3
51	QRS COMPLEX DETECTION USING DOUBLE DENSITY DISCRETE WAVELET TRANSFORM. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 65-73.	0.3	2
52	ECG SIGNAL CODING USING BIORTHOGONAL WAVELET-BASED BURROWS-WHEELER CODER. International Journal of Wavelets, Multiresolution and Information Processing, 2011, 09, 269-281.	0.9	2
53	Secure Speaker Recognition using BGN Cryptosystem with Prime Order Bilinear Group. International Journal of Information Security and Privacy, 2015, 9, 1-19.	0.6	2
54	Satellite Image Change Detection Using Laplacian-Gaussian Distributions. Wireless Personal Communications, 2017, 97, 4621-4630.	1.8	2

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55	Noncoherent Detection for Improving the Spectral Efficiency of OFDM-IM Systems. Wireless Personal Communications, 2020, 115, 2767-2777.	1.8	2
56	Reliable set of random number generation using Astable Multivibrator PUF. Analog Integrated Circuits and Signal Processing, 2022, 112, 29-48.	0.9	2
57	QRS COMPLEX DETECTION USING OPTIMAL DISCRETE WAVELET. International Journal of Computational Intelligence and Applications, 2009, 08, 97-109.	0.6	1
58	Frequency-time analysis approach to feature extraction for text independent speaker identification. , 2011, , .		1
59	Nonsampled Contourlet Transform based expectation maximization method for segmentation of images. , 2012, , .		1
60	Semi-automatic syllable-like segmentation for Hindi. , 2013, , .		1
61	Text independent voice based students attendance system under noisy environment using RASTA-MFCC feature. , 2014, , .		1
62	Contemporary speech/speaker recognition with speech from impaired vocal apparatus. , 2014, , .		1
63	Development of wavelet based signal compression algorithm using adaptive coder in FPGA. , 2016, , .		1
64	Automatic Detection and Classification of Epileptic Seizure using Radial basis Function and Power Spectral Density. , 2019, , .		1
65	Upgraded NLMS algorithm for speech enhancement with sparse and dispersive impulse responses. Indian Journal of Physics, 2021, 95, 21-32.	0.9	1
66	Successive partition zero coder for embedded lossless wavelet-based ECG signal coding [ECG read ECG]. , 2003, , .		0
67	Performance Analysis of Embedded Lossless Wavelet Based Successive Partition Zero Coder for ECG Signal Coding. , 0, , .		0
68	Notice of Violation of IEEE Publication Principles: ECG Signal Interferences Removal Using Wavelet Based CSTD Technique. , 2007, , .		0
69	An optimal non-parametric filter for high interference harmonic signals. , 2012, , .		0
70	Efficiency improvement in RNG using a simplified algorithm. , 2013, , .		0
71	Fabrication of energy harvesting devices using ZnO nanowires. , 2013, , .		0
72	A static bluetooth process continuously depend on a multi-robot sequential analysis. , 2013, , .		0

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73	Nonsampled Contourlet Transform based expectation maximization method with adaptive mean shift for automatic segmentation of MR brain images. , 2014, , .		0
74	A Reduced Complexity Algorithm for Multi User Detection in DS UWB Systems. Procedia Computer Science, 2015, 47, 128-134.	1.2	0
75	Edge Detection Using Simplified Second Order Differential Hyperbolic Tangent Steerable Filter. Journal of Engineering and Applied Sciences, 2012, 7, 331-338.	0.2	0
76	Realisation of AWGN Channel Emulation Modules Under SISO and SIMO Environments for 4G LTE Systems. International Journal of Wireless and Mobile Networks, 2014, 6, 27-44.	0.1	0
77	An Efficient Assessment Methodology for the Diagnosis of Neurological Disorders from the Uttered Speech Signal. Asian Journal of Research in Social Sciences and Humanities, 2016, 6, 404.	0.0	0
78	Secure Speaker Recognition using BGN Cryptosystem with Prime Order Bilinear Group. , 2020, , 277-294.		0
79	Classification of brain tumours from MR images with an enhanced deep learning approach using densely connected convolutional network. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-12.	1.3	0