

# R Shantha Selvakumari

## List of Publications by Year in descending order

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79  
papers

695  
citations

759233  
12  
h-index

713466  
21  
g-index

82  
all docs

82  
docs citations

82  
times ranked

657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliable set of random number generation using Astable Multivibrator PUF. Analog Integrated Circuits and Signal Processing, 2022, 112, 29-48.	1.4	2
2	Eagle Eye CBVR Based on Unique Key Frame Extraction and Deep Belief Neural Network. Wireless Personal Communications, 2021, 116, 411-441.	2.7	6
3	Genetic algorithm with logistic regression feature selection for Alzheimer's disease classification. Neural Computing and Applications, 2021, 33, 8435-8444.	5.6	35
4	Upgraded NLMS algorithm for speech enhancement with sparse and dispersive impulse responses. Indian Journal of Physics, 2021, 95, 21-32.	1.8	1
5	Double Stage Gaussian Filter for Better Underwater Image Enhancement. Wireless Personal Communications, 2020, 114, 2909-2921.	2.7	7
6	Noncoherent Detection for Improving the Spectral Efficiency of OFDM-IM Systems. Wireless Personal Communications, 2020, 115, 2767-2777.	2.7	2
7	Secure Speaker Recognition using BGN Cryptosystem with Prime Order Bilinear Group. , 2020, , 277-294.		0
8	A review on coupled and uncoupled multicore fibers for future ultra-high capacity optical communication. Optik, 2019, 199, 163341.	2.9	16
9	Very large-scale integration architecture for wavelet-based ECG signal adaptive coder. IET Signal Processing, 2019, 13, 56-64.	1.5	4
10	Patient-Specific Seizure Detection Method using Hybrid Classifier with Optimized Electrodes. Journal of Medical Systems, 2019, 43, 121.	3.6	53
11	Classification of MR Brain Images for Detection of Tumor with Transfer Learning from Pre-trained CNN Models. , 2019, , .		12
12	Automatic Detection and Classification of Epileptic Seizure using Radial basis Function and Power Spectral Density. , 2019, , .		1
13	Performance evaluation of hybrid modulation techniques for high speed radio over fiber communication system. International Journal of Modern Physics C, 2019, 30, 1950070.	1.7	3
14	Noninvasive method of epileptic detection using DWT and generalized regression neural network. Soft Computing, 2019, 23, 2645-2653.	3.6	15
15	A novel 3- level energy heterogeneity clustering protocol with hybrid routing for a concentric circular wireless sensor network. Cluster Computing, 2019, 22, 11101-11108.	5.0	8
16	A New Energy Efficient Clustering Protocol for a Novel Concentric Circular Wireless Sensor Network. Wireless Personal Communications, 2018, 103, 2455-2473.	2.7	3
17	Fruit Classification using Statistical Features in SVM Classifier. , 2018, , .		18
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.	1.8	13

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19	SAR image despeckling using heavy-tailed Burr distribution. Signal, Image and Video Processing, 2017, 11, 49-55.	2.7	10
20	Gabor filter based change detection in SAR images by KI thresholding. Optik, 2017, 130, 114-122.	2.9	26
21	Spatial Fuzzy C Means and Expectation Maximization Algorithms with Bias Correction for Segmentation of MR Brain Images. Journal of Medical Systems, 2017, 41, 15.	3.6	32
22	Satellite Image Change Detection Using Laplacian-Gaussian Distributions. Wireless Personal Communications, 2017, 97, 4621-4630.	2.7	2
23	Comparative study of statistical modeling of wavelet coefficients for SAR image despeckling. International Journal of Wavelets, Multiresolution and Information Processing, 2017, 15, 1750003.	1.3	6
24	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.	3.0	6
25	Interfacing of MEMS motion sensor with FPGA using I2C protocol. , 2017, , .		21
26	Efficient 2-level Energy Heterogeneity Clustering Protocols for Wireless Sensor Network. Indian Journal of Science and Technology, 2016, 9, .	0.7	4
27	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.	4.1	24
28	Development of wavelet based signal compression algorithm using adaptive coder in FPGA. , 2016, , .		1
29	Myocardial infarction detection and heart patient identity verification. , 2016, , .		6
30	Logarithmic Mean-Based Thresholding for SAR Image Change Detection. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1726-1728.	3.1	57
31	Noise Robust Speaker Identification Using RASTA-MFCC Feature with Quadrilateral Filter Bank Structure. Wireless Personal Communications, 2016, 91, 1321-1333.	2.7	12
32	Assessment of dysarthric speech using Elman back propagation network (recurrent network) for speech recognition. International Journal of Speech Technology, 2016, 19, 577-583.	2.2	11
33	Labelling of Hindi Speech. IETE Journal of Research, 2016, 62, 146-153.	2.6	4
34	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
35	Secure Speaker Recognition using BGN Cryptosystem with Prime Order Bilinear Group. International Journal of Information Security and Privacy, 2015, 9, 1-19.	0.8	2
36	Behavior architecture controller for an autonomous robot navigation in an unknown environment to perform a given task. International Journal of Physical Sciences, 2015, 10, 182-191.	0.4	9

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37	A Reduced Complexity Algorithm for Multi User Detection in DS UWB Systems. Procedia Computer Science, 2015, 47, 128-134.	2.0	0
38	A FRAMEWORK FOR MULTILINGUAL TEXT- INDEPENDENT SPEAKER IDENTIFICATION SYSTEM. Journal of Computer Science, 2014, 10, 178-189.	0.6	4
39	VLSI architecture for LGXP texture for face recognition. Journal of Intelligent and Fuzzy Systems, 2014, 27, 2635-2647.	1.4	10
40	Text independent voice based students attendance system under noisy environment using RASTA-MFCC feature. , 2014, , .		1
41	Unsupervised edge enhancement algorithm for SAR images using exploitation of wavelet transform coefficients. , 2014, , .		3
42	Contemporary speech/speaker recognition with speech from impaired vocal apparatus. , 2014, , .		1
43	Nonsubsampled Contourlet Transform based expectation maximization method with adaptive mean shift for automatic segmentation of MR brain images. , 2014, , .		0
44	A review on speech enhancement algorithms and why to combine with environment classification. International Journal of Modern Physics C, 2014, 25, 1430002.	1.7	3
45	Edge detection for illumination varying images using wavelet similarity. IET Image Processing, 2014, 8, 261-268.	2.5	11
46	Classification of cardiac arrhythmias based on morphological and rhythmic features. International Journal of Biomedical Engineering and Technology, 2014, 14, 192.	0.2	10
47	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.	0.2	0
48	Directionlet transform based sharpening and enhancement of mammographic X-ray images. Biomedical Signal Processing and Control, 2013, 8, 391-399.	5.7	24
49	Efficiency improvement in RNG using a simplified algorithm. , 2013, , .		0
50	Fabrication of energy harvesting devices using ZnO nanowires. , 2013, , .		0
51	Semi-automatic syllable-like segmentation for Hindi. , 2013, , .		1
52	Sharpening enhancement of ultrasound images using contourlet transform. Optik, 2013, 124, 4789-4792.	2.9	14
53	Sharpening enhancement of Computed Tomography (CT) images using Hyperbolic Secant Square filter. Optik, 2013, 124, 2121-2124.	2.9	13
54	Contourlet transform-based sharpening enhancement of retinal images and vessel extraction application. Biomedizinische Technik, 2013, 58, 87-96.	0.8	6

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55	A static bluetooth process continuously depend on a multi-robot sequential analysis. , 2013, , .		0
56	An optimal non-parametric filter for high interference harmonic signals. , 2012, , .		0
57	Nonsubsampled Contourlet Transform based expectation maximization method for segmentation of images. , 2012, , .		1
58	Robust speaker identification using vocal source information. , 2012, , .		3
59	Fused Mel Feature sets based Text-Independent Speaker Identification using Gaussian Mixture Model. Procedia Engineering, 2012, 30, 319-326.	1.2	23
60	Edge Detection Using Simplified Second Order Differential Hyperbolic Tangent Steerable Filter. Journal of Engineering and Applied Sciences, 2012, 7, 331-338.	0.2	0
61	Frequency-time analysis approach to feature extraction for text independent speaker identification. , 2011, , .		1
62	Seizure detection in EEG using time frequency analysis and SVM. , 2011, , .		22
63	ECG SIGNAL CODING USING BIORTHOGONAL WAVELET-BASED BURROWSâ€WHEELER CODER. International Journal of Wavelets, Multiresolution and Information Processing, 2011, 09, 269-281.	1.3	2
64	QRS COMPLEX DETECTION USING OPTIMAL DISCRETE WAVELET. International Journal of Computational Intelligence and Applications, 2009, 08, 97-109.	0.8	1
65	QRS COMPLEX DETECTION USING DOUBLE DENSITY DISCRETE WAVELET TRANSFORM. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 65-73.	0.6	2
66	Audio Signal Classification Based on Optimal Wavelet and Support Vector Machine. , 2007, , .		3
67	Study on Reduction of Machining Time in CNC Turning Centre by Genetic Algorithm. , 2007, , .		9
68	WAVELET-BASED BASE LINE WANDERING REMOVAL AND R PEAK AND QRS COMPLEX DETECTION. International Journal of Wavelets, Multiresolution and Information Processing, 2007, 05, 927-939.	1.3	6
69	DE-NOISING AND BASELINE WANDERING REMOVAL OF ELECTROCARDIOGRAM USING DOUBLE DENSITY DISCRETE WAVELET. International Journal of Wavelets, Multiresolution and Information Processing, 2007, 05, 399-415.	1.3	10
70	Notice of Violation of IEEE Publication Principles: ECG Signal Interferences Removal Using Wavelet Based CSTD Technique. , 2007, , .		0
71	XAdap: An Adaptive Huffman Coding on Markup Languages. , 2007, , .		6
72	Design of Optimal Discrete Wavelet for ECG Signal Using Orthogonal Filter Bank. , 2007, , .		6

#	ARTICLE	IF	CITATIONS
73	A novel algorithm for wavelet based ECG signal coding. Computers and Electrical Engineering, 2007, 33, 186-194.	4.8	17
74	Successive partition zero coder for embedded lossless wavelet-based ECG signal coding [ECG read ECG]. , 2003,, .		0
75	Wavelets for Improving Spectral Efficiency in a Digital Communication System. , 0, , .		8
76	Performance Analysis of Embedded Lossless Wavelet Based Successive Partition Zero Coder for ECG Signal Coding. , 0, , .		0
77	Artificial Neural Network Based Automatic Cardiac Abnormalities Classification. , 0, , .		22
78	A Monopole Antenna with Offset-fed Microstrip Line for Wireless Application. IETE Journal of Research, 0, , 1-7.	2.6	3
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.	1.9	0