

P Palanisamy

List of Publications by Year in descending order

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133
papers

1,324
citations

394421

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h-index

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30
g-index

134
all docs

134
docs citations

134
times ranked

963
citing authors

#	ARTICLE	IF	CITATIONS
1	A lightweight CNN for Diabetic Retinopathy classification from fundus images. Biomedical Signal Processing and Control, 2020, 62, 102115.	5.7	96
2	Speckle reduction in medical ultrasound images using an unbiased non-local means method. Biomedical Signal Processing and Control, 2016, 28, 1-8.	5.7	86
3	Automated Binary and Multiclass Classification of Diabetic Retinopathy Using Haralick and Multiresolution Features. IEEE Access, 2020, 8, 57497-57504.	4.2	56
4	OctNET: A Lightweight CNN for Retinal Disease Classification from Optical Coherence Tomography Images. Computer Methods and Programs in Biomedicine, 2021, 200, 105877.	4.7	54
5	2D-DOD and 2D-DOA estimation using the electromagnetic vector sensors. Signal Processing, 2018, 147, 163-172.	3.7	47
6	Two-dimensional DOA estimation of coherent signals using acoustic vector sensor array. Signal Processing, 2012, 92, 19-28.	3.7	46
7	Analysis of nuclei textures of fine needle aspirated cytology images for breast cancer diagnosis using Complex Daubechies wavelets. Signal Processing, 2013, 93, 2828-2837.	3.7	45
8	Diabetic retinopathy classification based on multipath CNN and machine learning classifiers. Physical and Engineering Sciences in Medicine, 2021, 44, 639-653.	2.4	42
9	Enhancement and bias removal of optical coherence tomography images: An iterative approach with adaptive bilateral filtering. Computers in Biology and Medicine, 2016, 71, 97-107.	7.0	41
10	A novel multiscale convolutional neural network based age-related macular degeneration detection using OCT images. Biomedical Signal Processing and Control, 2021, 67, 102538.	5.7	33
11	An improved luminosity and contrast enhancement framework for feature preservation in color fundus images. Signal, Image and Video Processing, 2019, 13, 719-726.	2.7	31
12	Nonlocal linear minimum mean square error methods for denoising MRI. Biomedical Signal Processing and Control, 2015, 20, 125-134.	5.7	30
13	Automated classification of diabetic retinopathy through reliable feature selection. Physical and Engineering Sciences in Medicine, 2020, 43, 927-945.	2.4	30
14	An Expert Support System for Breast Cancer Diagnosis using Color Wavelet Features. Journal of Medical Systems, 2012, 36, 3091-3102.	3.6	29
15	Wavelet based feature extraction method for breast cancer cytology images. , 2010, , .		26
16	Hybrid MCDM approach for vendor ranking. Journal of Manufacturing Technology Management, 2013, 24, 905-928.	6.4	24
17	A hybrid feature preservation technique based on luminosity and edge based contrast enhancement in color fundus images. Biocybernetics and Biomedical Engineering, 2020, 40, 752-763.	5.9	23
18	A novel multiscale and multipath convolutional neural network based age-related macular degeneration detection using OCT images. Computer Methods and Programs in Biomedicine, 2021, 209, 106294.	4.7	22

#	ARTICLE	IF	CITATIONS
19	Automated colorectal polyp detection based on image enhancement and dual-path CNN architecture. Biomedical Signal Processing and Control, 2022, 73, 103465.	5.7	22
20	Removal of high density salt and pepper noise through improved tolerance based selective arithmetic mean filtering with wavelet thresholding. AEU - International Journal of Electronics and Communications, 2016, 70, 757-776.	2.9	20
21	Redundancy reduced depthwise separable convolution for glaucoma classification using OCT images. Biomedical Signal Processing and Control, 2022, 71, 103192.	5.7	20
22	Log-gabor wavelets based breast carcinoma classification using least square support vector machine. , 2011, , .		19
23	Detection and removal of Salt and Pepper noise in images by improved median filter. , 2011, , .		19
24	Fractional fuzzy 2DLDA approach for pomegranate fruit grade classification. Computers and Electronics in Agriculture, 2019, 162, 95-105.	7.7	19
25	RPE layer detection and baseline estimation using statistical methods and randomization for classification of AMD from retinal OCT. Computer Methods and Programs in Biomedicine, 2021, 200, 105822.	4.7	17
26	Computationally efficient method for joint DOD and DOA estimation of coherent targets in MIMO radar. Signal Processing, 2019, 165, 262-267.	3.7	16
27	DIRECTION OF ARRIVAL ESTIMATION BASED ON FOURTH-ORDER CUMULANT USING PROPAGATOR METHOD. Progress in Electromagnetics Research B, 2009, 18, 83-99.	1.0	15
28	Detecting anomalous growth of skin lesion using threshold-based segmentation algorithm and Fuzzy K-Nearest Neighbor classifier. Journal of Cancer Research and Therapeutics, 2020, 16, 40.	0.9	15
29	A new DOA estimation algorithm for wideband signals in the presence of unknown spatially correlated noise. Signal Processing, 2009, 89, 1921-1931.	3.7	13
30	Classification and weighing of sweet lime (Citrus limetta) for packaging using computer vision system. Journal of Food Measurement and Characterization, 2019, 13, 1451-1468.	3.2	12
31	Moving Vehicle Candidate Recognition and Classification Using Inception-ResNet-v2. , 2020, , .		12
32	Multiple regularization based MRI reconstruction. Signal Processing, 2014, 103, 103-113.	3.7	11
33	On-grid DOA estimation method using orthogonal matching pursuit. , 2017, , .		11
34	Yield Estimation of Chilli Crop using Image Processing Techniques. , 2020, , .		11
35	Complex wavelet as nucleus descriptors for automated cancer cytology classifier system using ANN. , 2010, , .		10
36	Capsule Endoscopic Colour Image Denoising Using Complex Wavelet Transform. Communications in Computer and Information Science, 2012, , 220-229.	0.5	10

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37	On application of OMP and CoSaMP algorithms for DOA estimation problem. , 2017, , .		10
38	DOD and DOA estimation using the spatial smoothing in MIMO radar with the EmV sensors. Multidimensional Systems and Signal Processing, 2018, 29, 1241-1253.	2.6	10
39	Estimation of real-valued sinusoidal signal frequencies based on ESPRIT and propagator methods. , 2011, , .		9
40	MR Image Reconstruction Based on Iterative Split Bregman Algorithm and Nonlocal Total Variation. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-16.	1.3	9
41	Direct Localization of Multiple Noncircular Sources With a Moving Nested Array. IEEE Access, 2019, 7, 101106-101116.	4.2	9
42	Clustered ANFIS weighing models for sweet lime (Citrus limetta) using computer vision system. Journal of Food Process Engineering, 2019, 42, e13160.	2.9	9
43	An efficient densely connected convolutional neural network for identification of plant diseases. Multimedia Tools and Applications, 2022, 81, 32791-32816.	3.9	9
44	Improved tolerance based selective arithmetic mean filter for detection and removal of impulse noise. , 2010, , .		8
45	Image security using DES and RNS with reversible watermarking. , 2014, , .		8
46	2-D DOA estimation of quasi-stationary signals based on Khatri-Rao subspace approach. , 2011, , .		7
47	Inception single shot multi-box detector with affinity propagation clustering and their application in multi-class vehicle counting. Applied Intelligence, 2021, 51, 4714-4729.	5.3	7
48	MR image reconstruction based on framelets and nonlocal total variation using split Bregman method. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 459-472.	2.8	6
49	Detection of table structure and content extraction from scanned documents. , 2014, , .		6
50	Neural network based class-conditional probability density function using kernel trick for supervised classifier. Neurocomputing, 2015, 154, 225-229.	5.9	6
51	Iterative Computed Tomography Reconstruction from Sparse-View Data. Journal of Medical Imaging and Health Informatics, 2016, 6, 34-46.	0.3	6
52	An improved nonlocal maximum likelihood estimation method for denoising magnetic resonance images with spatially varying noise levels. Pattern Recognition Letters, 2020, 139, 34-41.	4.2	6
53	POLARIZATION DIFFERENCE SMOOTHING IN BISTATIC MIMO RADAR. Progress in Electromagnetics Research Letters, 2020, 88, 67-74.	0.7	6
54	Pixel matching search algorithm for counting moving vehicle in highway traffic videos. Multimedia Tools and Applications, 2021, 80, 3153-3172.	3.9	6

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55	Reduction of PAPR in OTFS using normalized $\frac{1}{4}$ law and A law companding transform. Internet Technology Letters, 2022, 5, .	1.9	6
56	Ground-based 4d trajectory prediction using bi-directional LSTM networks. Applied Intelligence, 2022, 52, 16417-16434.	5.3	6
57	Complex wavelet based texture features of cancer cytology images. , 2010, , .		5
58	Maximizing Gaussianity using kurtosis measurement in the kernel space for kernel linear discriminant analysis. Neurocomputing, 2014, 144, 329-337.	5.9	5
59	Integrated polarisation and diversity smoothing algorithm for DOD and DOA estimation of coherent targets. IET Signal Processing, 2018, 12, 447-453.	1.5	5
60	Texture and Colour Gradient Features for Grade analysis of Pomegranate and Mango Fruits using kernel-SVM Classifiers. , 2020, , .		5
61	Pothole and Speed Bump Classification Using a Five-Layer Simple Convolutional Neural Network. Advances in Intelligent Systems and Computing, 2021, , 491-499.	0.6	5
62	Performance analysis of Raptor codes in Wi-Max systems over fading channel. , 2008, , .		4
63	Target detection by adaptive noise cancellation. Electronics Letters, 2008, 44, 1329.	1.0	4
64	A novel wavelet based denoising algorithm using level dependent thresholding. , 2014, , .		4
65	Undecimated double density dual tree wavelet transform based image denoising using a subband adaptive threshold. , 2014, , .		4
66	An Adaptive Enhancement method for Low Contrast Color Retinal Images based on Structural Similarity. , 2018, , .		4
67	Improved Method of Direction Finding for Non Circular Signals with Wavelet Denoising Using Three Parallel Uniform Linear Arrays. Wireless Personal Communications, 2020, 115, 291-305.	2.7	4
68	Classification and Indirect Weighing of Sweet Lime Fruit through Machine Learning and Meta-heuristic Approach. International Journal of Fruit Science, 2021, 21, 528-545.	2.4	4
69	Fast approach for moving vehicle localization and bounding box estimation in highway traffic videos. Signal, Image and Video Processing, 2021, 15, 1041-1048.	2.7	4
70	Sonar target detection by modified adaptive noise cancellation using correlating filter. International Journal of Electronics, 2011, 98, 41-60.	1.4	3
71	Formulating Particle Swarm Optimization based Generalized Kernel Function for Kernel-Linear Discriminant Analysis. Procedia Technology, 2012, 6, 517-525.	1.1	3
72	A novel method for text and non-text segmentation in document images. , 2013, , .		3

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73	Image Denoising Based on Undecimated Double Density Dual Tree Wavelet Transform and Modified Firm Shrinkage. , 2013, , .		3
74	Formulating particle swarm optimization based membership linear discriminant analysis. Swarm and Evolutionary Computation, 2013, 12, 65-73.	8.1	3
75	Micro-CT image reconstruction based on alternating direction augmented Lagrangian method and total variation. Computerized Medical Imaging and Graphics, 2013, 37, 419-429.	5.8	3
76	Regularization based CT image reconstruction using Algebraic techniques. , 2014, , .		3
77	Coherent targets DOA estimation with electromagnetic vector sensors in MIMO radar. , 2015, , .		3
78	A nonlocal maximum likelihood estimation method for enhancing magnetic resonance phase maps. Signal, Image and Video Processing, 2017, 11, 913-920.	2.7	3
79	SPATIAL AND POLARIZATION ANGLE ESTIMATION OF MIXED-TARGETS IN MIMO RADAR. Progress in Electromagnetics Research M, 2019, 82, 49-59.	0.9	3
80	Two Dimensional Direction of Arrival Estimation Algorithm for Coherent Signals Using Three Parallel Uniform Linear Arrays. Journal of Communications Technology and Electronics, 2019, 64, 1383-1390.	0.5	3
81	Performance Analysis of Adaptive Generalized Spatial Modulation. , 2020, , .		3
82	Analysis of GSM-SM Over κ - μ , η - μ and α - μ Fading Channels. Wireless Personal Communications, 2021, 117, 2679-2693.	2.7	3
83	Fusion of gradient and feature similarity for Keyframe extraction. Multimedia Tools and Applications, 2021, 80, 15429-15467.	3.9	3
84	2D Direction Finding of Coherent Sources Using Three Parallel Sparse Arrays with Less Computational Complexity. Circuits, Systems, and Signal Processing, 2021, 40, 4576-4593.	2.0	3
85	Fractional weighted nuclear norm based two dimensional linear discriminant features for cucumber leaf disease recognition. Multimedia Tools and Applications, 2022, 81, 38735-38755.	3.9	3
86	Line removal technique for document and non document images. , 2011, , .		2
87	Iterative method for CT image reconstruction from reduced number of projection views. , 2013, , .		2
88	Fast computation of PCA bases of image subspace using its inner-product subspace. Applied Mathematics and Computation, 2013, 219, 6729-6732.	2.2	2
89	Optimal orthogonal pilots design for MIMO-OFDM channel estimation. , 2014, , .		2
90	Reversible watermarking with embedded digital signature. , 2014, , .		2

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91	A strict bound for dimension of measurement matrix for CS beamformer MUSIC algorithm. , 2016, , .		2
92	Application of Hypergeometric function in MIMO Wireless Systems. , 2018, , .		2
93	AN AUTOMATED METHOD TO DETECT AGE-RELATED MACULAR DEGENERATION FROM OPTICAL COHERENCE TOMOGRAPHIC IMAGES. Biomedical Engineering - Applications, Basis and Communications, 0, , 2150036.	0.6	2
94	Content-Based Video Retrieval Using Integration of Curvelet Transform and Simple Linear Iterative Clustering. International Journal of Image and Graphics, 2022, 22, .	1.5	2
95	COLORECTAL POLYP DETECTION USING IMAGE ENHANCEMENT AND SCALED YOLOv4 ALGORITHM. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	2
96	A New Fast Convergence Adaptive Algorithm. , 2007, , .		1
97	A new L-shape 2-dimensional angle of arrival estimation based on Propagator Method. , 2008, , .		1
98	Endoscopic image compression based on Double Density Discrete Wavelet Transform and SPIHT coding. , 2011, , .		1
99	CT image reconstruction based on combination of iterative reconstruction technique and total variation. , 2013, , .		1
100	A Hybrid Model for Rician Noise Reduction in MRI. , 2013, , .		1
101	Multitaper Spectrum Sensing Using Sinusoidal Tapers. , 2013, , .		1
102	Optimal pilot-aided semi blind channel estimation for MIMO-OFDM system. , 2015, , .		1
103	Outage performance analysis of dual-hop multi-relay decode-and-forward system for asymmetric fading channels. , 2016, , .		1
104	Pedestrian classification in partial occlusion. , 2017, , .		1
105	An Indirect Method to Estimate Sweet Lime Weight through Machine Learning Algorithm. , 2020, , .		1
106	Predictability improvement of Scheduled Flights Departure Time Variation using Supervised Machine Learning. International Journal of Aviation, Aeronautics, and Aerospace, 0, , .	0.2	1
107	Prediction of Gate In Time of Scheduled Flights and Schedule Conformance using Machine Learning-based Algorithms. International Journal of Aviation, Aeronautics, and Aerospace, 0, , .	0.2	1
108	A Machine Learning Based Approach for Prediction of Actual Landing Time of Scheduled Flights. Advances in Intelligent Systems and Computing, 2021, , 755-766.	0.6	1

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109	AUTOMATED POLYP DETECTION IN COLONOSCOPY VIDEOS USING IMAGE ENHANCEMENT AND SALIENCY DETECTION ALGORITHM. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	1
110	MULTI-SCALE DIRECTED ACYCLIC GRAPH-CNN FOR AUTOMATED CLASSIFICATION OF DIABETIC RETINOPATHY FROM OCT IMAGES. Biomedical Engineering - Applications, Basis and Communications, 2022, 34, .	0.6	1
111	CLASSIFICATION OF INFORMATIVE FRAMES IN COLONOSCOPY VIDEO BASED ON IMAGE ENHANCEMENT AND PHOG FEATURE EXTRACTION. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	1
112	An adaptive enhancement and fovea detection technique for color fundus image analysis. Signal, Image and Video Processing, 2023, 17, 831-838.	2.7	1
113	Efficient Realization of CORDIC based LDPC Decoder for WiMax System. , 2008, , .		0
114	Performance Analysis of Raptor Codes in OFDM Systems. , 2008, , .		0
115	Active bearing estimation from a mobile two-dimensional array of sensors. IET Signal Processing, 2010, 4, 55.	1.5	0
116	Novel 2-D real-valued sinusoidal signal frequencies estimation approach based on modified ESPRIT and propagator method. , 2012, , .		0
117	Information extraction and unfilled-form structure retrieval from filled-up forms. , 2013, , .		0
118	Multitaper spectrum sensing using sinusoidal tapers with overlapping time series. , 2014, , .		0
119	MIMO-OFDM channel estimation with complex and bipolar NRZ encoded pilots. , 2015, , .		0
120	A novel CS beamformer root-MUSIC algorithm and its subspace deviation analysis. , 2017, , .		0
121	Robust wavelet denoising based DOA estimation with mutual coupling compensation. , 2017, , .		0
122	Undecimated double density wavelet transform based contrast enhancement technique using dynamic stochastic resonance. , 2017, , .		0
123	Dynamic Functional and Network Connectivity Changes of Functional MRI Data: Parkinson's Study. , 2018, , .		0
124	Modified Adaptive Dictionary Reconstruction Framework for Compressed Sensing of ECG Signals. , 2020, , .		0
125	Localization of Coherent Targets in Bistatic MIMO Radar. , 2020, , .		0
126	Closed form Capacity expression of Spatial modulation using Hypergeometric series. , 2020, , .		0

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127	2-D DOA Estimation of Coherent Wideband Signals Using L-Shaped Sensor Array. Communications in Computer and Information Science, 2011, , 179-188.	0.5	0
128	An Efficient Two Dimensional Multiple Real-Valued Sinusoidal Signal Frequency Estimation Algorithm. Lecture Notes in Electrical Engineering, 2013, , 99-111.	0.4	0
129	Novel 2D Real-Valued Sinusoidal Signal Frequencies Estimation Based on Propagator Method. Advances in Intelligent Systems and Computing, 2014, , 305-315.	0.6	0
130	Outage Capacity Performance Analysis of Dual-Hop Multiple-Relay Decode-and-Forward System for Generalized η - μ Fading Channel. Advances in Intelligent Systems and Computing, 2017, , 643-651.	0.6	0
131	Balanced GHM Mutiwavelet Transform based Contrast Enhancement Technique for Dark Images using Dynamic Stochastic Resonance. Intelligent Automation and Soft Computing, 0, , 1-14.	2.1	0
132	A Combination of 2DLDA and LDA Approach for Fruit-Grade Classification with KSVM. Advances in Intelligent Systems and Computing, 2021, , 171-178.	0.6	0
133	Content based video retrieval using dynamic textures. Multimedia Tools and Applications, 0, , .	3.9	0