

Vikrant Bhateja

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

2,035
citations

23
h-index

34
g-index

170
ext. papers

2,283
ext. citations

1.2
avg, IF

5.47
L-index

#	Paper	IF	Citations
166	COFE-Net: An ensemble strategy for Computer-Aided Detection for COVID-19. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 187, 110289	4.6	4
165	Stationary Wavelet-Based Fusion Approach for Enhancement of Microscopy Images. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 333-341	0.5	
164	Segmentation of Microscopy Images Using Guided Filter and Otsu Thresholding. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 233-239	0.2	
163	Contrast Enhancement of CT-Scan Images of Lungs Using Morphological Filters. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 241-247	0.2	
162	An Improved Unsharp Masking (UM) Filter with GL Mask. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 225-231	0.2	
161	Discrete Wavelet Transform-Based Fusion of Mammogram Images for Contrast Improvement. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 203-210	0.2	1
160	Morphological Operation-Based Unsharp Masking Filter. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 305-311	0.5	
159	Multi-scale Retinex with Chromacity Preservation (MSRCP)-Based Contrast Enhancement of Microscopy Images. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 313-321	0.5	
158	Mammogram Image Fusion using Sigmoidal Function and Max. Fusion Rule. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 323-329	0.5	
157	MMHAR-EnsemNet: A Multi-Modal Human Activity Recognition Model. <i>IEEE Sensors Journal</i> , 2021 , 21, 11569-11576	4	4
156	Enhancement of Synthetic-Aperture Radar (SAR) Images Based on Dynamic Unsharp Masking. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 857-863	0.4	1
155	Cough Sound Analysis in Transform Domain for Classification of Respiratory Disorders. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 865-872	0.4	1
154	Deluge based Genetic Algorithm for feature selection. <i>Evolutionary Intelligence</i> , 2021 , 14, 357-367	1.7	28
153	Statistical Wavelets With Harmony Search- Based Optimal Feature Selection of EEG Signals for Motor Imagery Classification. <i>IEEE Sensors Journal</i> , 2021 , 21, 14263-14271	4	7
152	Arbitrary oriented multilingual text detection and segmentation using level set and Gaussian mixture model. <i>Evolutionary Intelligence</i> , 2021 , 14, 881-894	1.7	3
151	Data augmentation for cancer classification in oncogenomics: an improved KNN based approach. <i>Evolutionary Intelligence</i> , 2021 , 14, 489-498	1.7	7
150	Exploration of Wavelets for Pre-processing of Speech Signals. <i>Lecture Notes in Networks and Systems</i> , 2021 , 475-483	0.5	0

149	Glaucoma Detection Using Morphological Filters and GLCM Features. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 627-635	0.5	
148	Region Labeling Based Brain Tumor Segmentation from MR Images. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 825-831	0.5	1
147	Localization of Optic Cup-Disc in Retinal Images Using Morphological Filters for Glaucoma Detection. <i>Smart Innovation, Systems and Technologies</i> , 2021 , 817-824	0.5	
146	Propagation Analysis of COVID-19: An SIR Model-Based Investigation of the Pandemic. <i>Arabian Journal for Science and Engineering</i> , 2021 , 1-13	2.5	4
145	Enhancement of Retinal Images Using Morphological Filters. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 351-357	0.4	3
144	Two-stage multi-modal MR images fusion method based on Parametric Logarithmic Image Processing (PLIP) Model. <i>Pattern Recognition Letters</i> , 2020 , 136, 25-30	4.7	3
143	Handwritten Arabic numerals recognition using convolutional neural network. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020 , 11, 5445-5457	3.7	13
142	. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	12
141	Speckle Suppression and Enhancement Approaches for Processing of SAR Images: A Technical Review. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 695-703	0.5	2
140	Human Visual System Based Unsharp Masking for Enhancement of Mammograms. <i>Studies in Computational Intelligence</i> , 2020 , 199-222	0.8	
139	Non-Linear Polynomial Filters for Edge Enhancement of Mammograms. <i>Studies in Computational Intelligence</i> , 2020 , 163-197	0.8	
138	Contrast Stretching Techniques for Enhancement of Mammograms. <i>Studies in Computational Intelligence</i> , 2020 , 35-45	0.8	
137	Non-Linear Polynomial Filters for Contrast Enhancement of Mammograms. <i>Studies in Computational Intelligence</i> , 2020 , 123-162	0.8	1
136	Non-Linear Enhancement Techniques for Mammograms. <i>Studies in Computational Intelligence</i> , 2020 , 55-62	0.8	0
135	Mobile Mammography: Technological Improvements Using Non-Linear Polynomial Filters. <i>Studies in Computational Intelligence</i> , 2020 , 225-231	0.8	
134	Despeckling of Synthetic Aperture Radar (SAR) Images Using Local Statistics-Based Adaptive Filtering. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 683-689	0.4	
133	Enhancement of Brain MR-T1/T2 Images Using Mathematical Morphology. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 833-840	0.4	10
132	Continuous Wavelets for Pre-processing and Analysis of Cough Signals. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 711-718	0.5	2

131	Skull Stripping of Brain MRI Using Mathematical Morphology. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 775-780	0.5	4
130	On Analysis of Suitable Wavelet Family for Processing of Cough Signals. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 194-200	0.4	2
129	An Evaluation of Contrast Enhancement of Brain MR Images Using Morphological Filters. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 571-577	0.4	2
128	Non-Linear Filters for Mammogram Enhancement. <i>Studies in Computational Intelligence</i> , 2020 ,	0.8	2
127	A Contrast Enhancement Model for X-Ray Mammograms Using Modified Local s-Curve Transformation Based on Multi-Objective Optimization. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	2
126	A histogram based fuzzy ensemble technique for feature selection. <i>Evolutionary Intelligence</i> , 2019 , 12, 713-724	1.7	10
125	Feature Fusion and Classification of EEG/EOG Signals. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 793-799	0.4	7
124	Novel approaches towards slope and slant correction for tri-script handwritten word images. <i>Imaging Science Journal</i> , 2019 , 67, 159-170	0.9	8
123	Human visual system based optimized mathematical morphology approach for enhancement of brain MR images. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 1	3.7	20
122	Multi-exposure Image Fusion Method Using Anisotropic Diffusion. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 893-900	0.4	1
121	Suppression of Speckle Noise in Ultrasound Images Using Bilateral Filter. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 735-741	0.5	2
120	Speckle Noise Suppression in Ultrasound Images by Using an Improved Non-local Mean Filter. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 13-19	0.4	1
119	2019 ,		7
118	Autoregressive Modeling-Based Feature Extraction of EEG/EOG Signals. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 731-739	0.5	4
117	Noise Removal in EEG Signals Using SWTICA Combinational Approach. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 217-224	0.5	9
116	Non-local Mean Filter for Suppression of Speckle Noise in Ultrasound Images. <i>Smart Innovation, Systems and Technologies</i> , 2019 , 225-232	0.5	3
115	Artificial Neural Networks Based Fusion and Classification of EEG/EOG Signals. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 141-148	0.4	3
114	Haralick Features-Based Classification of Mammograms Using SVM. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 787-795	0.4	15

113	Unsharp masking approaches for HVS based enhancement of mammographic masses: A comparative evaluation. <i>Future Generation Computer Systems</i> , 2018 , 82, 176-189	7.5	14
112	Classification of Mammograms Using Sigmoidal Transformation and SVM. <i>Smart Innovation, Systems and Technologies</i> , 2018 , 193-199	0.5	7
111	Combination of EEMD and Morphological Filtering for Baseline Wander Correction in EMG Signals. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 365-373	0.2	10
110	Multi-focus Image Fusion Method Using 2D-Wavelet Analysis and PCA. <i>Smart Innovation, Systems and Technologies</i> , 2018 , 616-623	0.5	
109	Intelligent Computing in Multidisciplinary Engineering Applications. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 3861-3862	2.5	6
108	Multispectral medical image fusion scheme based on hybrid contourlet and shearlet transform domains. <i>Review of Scientific Instruments</i> , 2018 , 89, 084301	1.7	6
107	Baseline Correction in EMG Signals Using Mathematical Morphology and Canonical Correlation Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 581-589	0.4	0
106	AWGN Suppression Algorithm in EMG Signals Using Ensemble Empirical Mode Decomposition. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 515-524	0.4	1
105	Visible-Infrared Image Fusion Method Using Anisotropic Diffusion. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 525-532	0.4	2
104	Differential Evolution and Deterministic Chaotic Series: A Detailed Study. <i>Mendel</i> , 2018 , 24,	1.4	2
103	An Improved Mammogram Classification Approach Using Back Propagation Neural Network. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 369-376	0.4	19
102	ANN-Based Classification of Mammograms Using Nonlinear Preprocessing. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 375-382	0.2	10
101	Combination of Wavelets and Hard Thresholding for Analysis of Cough Signals 2018 ,		5
100	A comprehensive handwritten Indic script recognition system: a tree-based approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 1	3.7	11
99	Kuan Modified Anisotropic Diffusion Approach for Speckle Filtering. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 537-545	0.4	4
98	Optimizing feature selection in video-based recognition using MaxMin Ant System for the online video contextual advertisement user-oriented system. <i>Journal of Computational Science</i> , 2017 , 21, 361-370	3.4	17
97	Human visual system based unsharp masking for enhancement of mammographic images. <i>Journal of Computational Science</i> , 2017 , 21, 387-393	3.4	26
96	Combination of PCA and Contourlets for Multispectral Image Fusion. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 577-585	0.4	8

95	Communication Device for Differently Abled People: A Prototype Model. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 565-575	0.4	5
94	A parallel max-min ant system algorithm for dynamic resource allocation to support QoS requirements 2017 ,		2
93	Modified Non Linear Diffusion Approach for Multiplicative Noise. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 343-350	0.4	
92	Medical Image Fusion in Wavelet and Ridgelet Domains 2017 , 711-723		
91	Multispectral Medical Image Fusion using PCA in Wavelet Domain 2016 ,		4
90	NSCT based multispectral medical image fusion model 2016 ,		4
89	An Optimized Anisotropic Diffusion Approach for Despeckling of SAR Images. <i>Communications in Computer and Information Science</i> , 2016 , 134-140	0.3	6
88	Weighted-PCA Based Multimodal Medical Image Fusion in Contourlet Domain. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 597-605	0.4	8
87	Non-linear polynomial filters for edge enhancement of mammogram lesions. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 129, 125-34	6.9	29
86	GSM Based Automated Detection Model for Improvised Explosive Devices. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 673-681	0.4	1
85	Improved Non-Linear Polynomial Filters for Contrast Enhancement of Breast Tumors. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 461-468	0.5	1
84	Ant Colony Optimization Based Anisotropic Diffusion Approach for Despeckling of SAR Images. <i>Lecture Notes in Computer Science</i> , 2016 , 389-396	0.9	12
83	Medical Image Fusion in Curvelet Domain Employing PCA and Maximum Selection Rule. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 1-9	0.4	11
82	An Improved Kuan Algorithm for Despeckling of SAR Images. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 663-672	0.4	2
81	Wavelet-based medical image fusion via a non-linear operator 2016 ,		1
80	Multispectral medical image fusion in Contourlet domain for computer based diagnosis of Alzheimer's disease. <i>Review of Scientific Instruments</i> , 2016 , 87, 074303	1.7	18
79	A Reduced Reference Distortion Measure for Performance Improvement of Smart Cameras. <i>IEEE Sensors Journal</i> , 2015 , 15, 2531-2540	4	7
78	Speckle suppression in SAR images employing modified anisotropic diffusion filtering in wavelet domain for environment monitoring. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 74, 246-254	4.6	40

77	Rayleigh based bilateral filtering for flash and no-flash image pairs 2015 ,		1
76	Synthesis of flash and no-flash image pairs using guided image filtering 2015 ,		5
75	. <i>IEEE Sensors Journal</i> , 2015 , 15, 6783-6790	4	127
74	Image similarity metric (ISIM): a reduced reference image quality assessment approach. <i>CSI Transactions on ICT</i> , 2015 , 3, 1-11	0.4	8
73	PCA Based Medical Image Fusion in Ridgelet Domain. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 475-482	0.4	9
72	Technical Advancements to Mobile Mammography Using Nonlinear Polynomial Filters and IEEE 21451-1 NCAP Information Model. <i>IEEE Sensors Journal</i> , 2015 , 15, 2559-2566	4	16
71	Medical Image Fusion in Wavelet and Ridgelet Domains. <i>International Journal of Rough Sets and Data Analysis</i> , 2015 , 2, 78-91	0.3	22
70	A Non-Local Means Filtering Algorithm for Restoration of Rician Distributed MRI. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 1-8	0.4	12
69	Bilateral Filtering in Wavelet Domain for Synthesis of Flash and No-Flash Image Pairs. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 797-805	0.4	1
68	Restoration Algorithm for Gaussian Corrupted MRI Using Non-local Averaging. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 831-840	0.4	9
67	2014 ,		14
66	A Novel Cluster Head Selection and Routing Scheme for Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 403-415	0.4	5
65	2014 ,		7
64	Energy optimization in WSNs employing rolling grey model 2014 ,		12
63	Reduced reference IQA based on structural dissimilarity 2014 ,		11
62	Identification of Visual Evoked Potentials in EEG detection by empirical mode decomposition 2014 ,		12
61	2014 ,		10
60	Speckle reduction in ultrasound images using an improved conductance function based on Anisotropic Diffusion 2014 ,		13

59	2014,		13
58	A non-iterative adaptive median filter for image denoising 2014,		20
57	2014,		18
56	Medical image fusion with Laplacian Pyramids 2014,		38
55	A reduced reference distortion estimation measure for color images 2014,		9
54	2014,		14
53	Spatial filtering to detect brain sources from EEG measurements 2014,		14
52	A Novel Weighted Diffusion Filtering Approach for Speckle Suppression in Ultrasound Images. <i>Advances in Intelligent Systems and Computing, 2014, 459-466</i>	0.4	22
51	A Modified Speckle Suppression Algorithm for Breast Ultrasound Images Using Directional Filters. <i>Advances in Intelligent Systems and Computing, 2014, 219-226</i>	0.4	13
50	An Improved Local Statistics Filter for Denoising of SAR Images. <i>Advances in Intelligent Systems and Computing, 2014, 23-29</i>	0.4	15
49	Medical image fusion using combination of PCA and wavelet analysis 2014,		32
48	Despeckling of ultrasound images using non-linear conductance function 2014,		10
47	. <i>IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1440-1450</i>	5.2	56
46	Fast SSIM Index for Color Images Employing Reduced-Reference Evaluation. <i>Advances in Intelligent Systems and Computing, 2014, 451-458</i>	0.4	23
45	Performance Improvement of Decision Median Filter for Suppression of Salt and Pepper Noise. <i>Advances in Intelligent Systems and Computing, 2014, 287-297</i>	0.4	15
44	A robust approach for denoising and enhancement of mammographic images contaminated with high density impulse noise. <i>International Journal of Convergence Computing, 2013, 1, 38</i>		49
43	A Polynomial filtering model for enhancement of mammogram lesions 2013,		30
42	A novel approach for suppression of powerline interference and impulse noise in ECG signals 2013,		21

41	An integration of improved median and morphological filtering techniques for electrocardiogram signal processing 2013 ,		24
40	Non-linear quality evaluation index for mammograms 2013 ,		14
39	A no-reference contrast assessment index based on foreground and background 2013 ,		11
38	Contrast Improvement of Mammographic Masses Using Adaptive Volterra Filter. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 583-593	0.2	8
37	Design of New Volterra Filter for Mammogram Enhancement. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 143-151	0.4	17
36	A Robust Polynomial Filtering Framework for Mammographic Image Enhancement From Biomedical Sensors. <i>IEEE Sensors Journal</i> , 2013 , 13, 4147-4156	4	57
35	Volterra Filter design for edge enhancement of mammogram lesions 2013 ,		18
34	Improvement of masses detection in digital mammograms employing non-linear filtering 2013 ,		27
33	A no-reference image quality index for contrast and Sharpness measurement 2013 ,		18
32	Despeckling of SAR images in contourlet domain using a new adaptive thresholding 2013 ,		22
31	2013 ,		31
30	A noise robust edge detector for color images using Hilbert Transform 2013 ,		15
29	Multiple distortion pooling image quality assessment. <i>International Journal of Convergence Computing</i> , 2013 , 1, 60		33
28	An Efficient Cluster-Based Routing Protocol for WSNs Using Time Series Prediction-Based Data Reduction Scheme. <i>International Journal on Measurement Technologies and Instrumentation Engineering</i> , 2013 , 3, 18-34		7
27	A Non-Linear Approach to ECG Signal Processing using Morphological Filters. <i>International Journal on Measurement Technologies and Instrumentation Engineering</i> , 2013 , 3, 46-59		15
26	A New Contrast Measurement Index Based on Logarithmic Image Processing Model. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 715-723	0.4	9
25	A Novel Color Edge Detection Technique Using Hilbert Transform. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 725-732	0.4	9
24	An Improved Algorithm for Noise Suppression and Baseline Correction of ECG Signals. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 733-739	0.4	15

23	A Reconstruction Based Measure for Assessment of Mammogram Edge-Maps. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 741-746	0.4	12
22	Despeckling of SAR Images via an Improved Anisotropic Diffusion Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 747-754	0.4	23
21	A Composite Wavelets and Morphology Approach for ECG Noise Filtering. <i>Lecture Notes in Computer Science</i> , 2013 , 361-366	0.9	29
20	A New Morphological Filtering Algorithm for Pre-Processing of Electrocardiographic Signals. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 193-201	0.2	16
19	An Evaluation of Edge Detection Algorithms for Mammographic Calcifications. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 487-498	0.2	8
18	A Novel HVS Based Image Contrast Measurement Index. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 545-555	0.2	5
17	An Edge Detection Approach for Images Contaminated with Gaussian and Impulse Noises. <i>Lecture Notes in Electrical Engineering</i> , 2013 , 523-533	0.2	2
16	A comparative evaluation of various de-speckling algorithms for medical images 2012 ,		27
15	A novel detection and removal scheme for denoising images corrupted with Gaussian outliers 2012 ,		17
14	A New Unsharp Masking Algorithm for Mammography Using Non-linear Enhancement Function. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 779-786		17
13	An improved Unsharp Masking algorithm for enhancement of mammographic masses 2012 ,		12
12	A log-ratio based unsharp masking (UM) approach for enhancement of digital mammograms 2012 ,		15
11	A new model for performance evaluation of denoising algorithms based on image quality assessment 2012 ,		8
10	A versatile denoising method for images contaminated with Gaussian noise 2012 ,		20
9	A Novel Full Reference Image Quality Index for Color Images. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 245-253		14
8	A modified PSNR metric based on HVS for quality assessment of color images 2011 ,		54
7	A novel image denoising algorithm for suppressing mixture of speckle and impulse noise in spatial domain 2011 ,		16
6	An improved non-linear transformation function for enhancement of mammographic breast masses 2011 ,		24

5	2011,		32
4	A full-reference image quality metric for objective evaluation in spatial domain 2011,		23
3	Computer Aided Detection of Brain Tumor in Magnetic Resonance Images. <i>International Journal of Engineering and Technology</i> , 2011 , 3, 523-532	o	46
2	Combination of Wavelet Transform and Morphological Filtering for Enhancement of Magnetic Resonance Images. <i>Communications in Computer and Information Science</i> , 2011 , 460-474	o.3	37
1	Mammographic Image Enhancement using Double Sigmoid Transformation Function 2010,		14