Vikrant Bhateja

List of Publications by Citations

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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	. *IEEE Sensors Journal*, **2015**, 15, 6783-6790	4	127
165	A Robust Polynomial Filtering Framework for Mammographic Image Enhancement From Biomedical Sensors. *IEEE Sensors Journal*, **2013**, 13, 4147-4156	4	57
164	. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 1440-1450	5.2	56
163	A modified PSNR metric based on HVS for quality assessment of color images **2011**,		54
162	A robust approach for denoising and enhancement of mammographic images contaminated with high density impulse noise. *International Journal of Convergence Computing*, **2013**, 1, 38		49
161	Computer Aided Detection of Brain Tumor in Magnetic Resonance Images. *International Journal of Engineering and Technology*, **2011**, 3, 523-532	0	46
160	Speckle suppression in SAR images employing modified anisotropic diffusion filtering in wavelet domain for environment monitoring. *Measurement: Journal of the International Measurement Confederation*, **2015**, 74, 246-254	4.6	40
159	Medical image fusion with Laplacian Pyramids **2014**,		38
158	Combination of Wavelet Transform and Morphological Filtering for Enhancement of Magnetic Resonance Images. *Communications in Computer and Information Science*, **2011**, 460-474	0.3	37
157	Multiple distortion pooling image quality assessment. *International Journal of Convergence Computing*, **2013**, 1, 60		33
156	Medical image fusion using combination of PCA and wavelet analysis **2014**,		32
155	**2011**,		32
154	**2013**,		31
153	A Polynomial filtering model for enhancement of mammogram lesions **2013**,		30
152	Non-linear polynomial filters for edge enhancement of mammogram lesions. *Computer Methods and Programs in Biomedicine*, **2016**, 129, 125-34	6.9	29
151	A Composite Wavelets and Morphology Approach for ECG Noise Filtering. *Lecture Notes in Computer Science*, **2013**, 361-366	0.9	29
150	Deluge based Genetic Algorithm for feature selection. *Evolutionary Intelligence*, **2021**, 14, 357-367	1.7	28

149	A comparative evaluation of various de-speckling algorithms for medical images **2012**,		27
148	Improvement of masses detection in digital mammograms employing non-linear filtering **2013**,		27
147	Human visual system based unsharp masking for enhancement of mammographic images. *Journal of Computational Science*, **2017**, 21, 387-393	3.4	26
146	An integration of improved median and morphological filtering techniques for electrocardiogram signal processing **2013**,		24
145	An improved non-linear transformation function for enhancement of mammographic breast masses **2011**,		24
144	A full-reference image quality metric for objective evaluation in spatial domain **2011**,		23
143	Fast SSIM Index for Color Images Employing Reduced-Reference Evaluation. *Advances in Intelligent Systems and Computing*, **2014**, 451-458	0.4	23
142	Despeckling of SAR Images via an Improved Anisotropic Diffusion Algorithm. *Advances in Intelligent Systems and Computing*, **2013**, 747-754	0.4	23
141	A Novel Weighted Diffusion Filtering Approach for Speckle Suppression in Ultrasound Images. *Advances in Intelligent Systems and Computing*, **2014**, 459-466	0.4	22
140	Despeckling of SAR images in contourlet domain using a new adaptive thresholding **2013**,		22
139	Medical Image Fusion in Wavelet and Ridgelet Domains. *International Journal of Rough Sets and Data Analysis*, **2015**, 2, 78-91	0.3	22
138	A novel approach for suppression of powerline interference and impulse noise in ECG signals **2013**,		21
137	Human visual system based optimized mathematical morphology approach for enhancement of brain MR images. *Journal of Ambient Intelligence and Humanized Computing*, **2019**, 1	3.7	20
136	A non-iterative adaptive median filter for image denoising **2014**,		20
135	A versatile denoising method for images contaminated with Gaussian noise **2012**,		20
134	An Improved Mammogram Classification Approach Using Back Propagation Neural Network. *Advances in Intelligent Systems and Computing*, **2018**, 369-376	0.4	19
133	**2014**,		18
132	Volterra Filter design for edge enhancement of mammogram lesions **2013**,		18

131	A no-reference image quality index for contrast and Sharpness measurement **2013**,		18
130	Multispectral medical image fusion in Contourlet domain for computer based diagnosis of Alzheimer's disease. *Review of Scientific Instruments*, **2016**, 87, 074303	1.7	18
129	Optimizing feature selection in video-based recognition using MaxMin Ant System for the online video contextual advertisement user-oriented system. *Journal of Computational Science*, **2017**, 21, 361-370	3.4	17
128	A novel detection and removal scheme for denoising images corrupted with Gaussian outliers **2012**,		17
127	A New Unsharp Masking Algorithm for Mammography Using Non-linear Enhancement Function. *Advances in Intelligent and Soft Computing*, **2012**, 779-786		17
126	Design of New Volterra Filter for Mammogram Enhancement. *Advances in Intelligent Systems and Computing*, **2013**, 143-151	0.4	17
125	Technical Advancements to Mobile Mammography Using Nonlinear Polynomial Filters and IEEE 21451-1 NCAP Information Model. *IEEE Sensors Journal*, **2015**, 15, 2559-2566	4	16
124	A novel image denoising algorithm for suppressing mixture of speckle and impulse noise in spatial domain **2011**,		16
123	A New Morphological Filtering Algorithm for Pre-Processing of Electrocardiographic Signals. *Lecture Notes in Electrical Engineering*, **2013**, 193-201	0.2	16
122	Haralick Features-Based Classification of Mammograms Using SVM. *Advances in Intelligent Systems and Computing*, **2018**, 787-795	0.4	15
121	An Improved Local Statistics Filter for Denoising of SAR Images. *Advances in Intelligent Systems and Computing*, **2014**, 23-29	0.4	15
120	A noise robust edge detector for color images using Hilbert Transform **2013**,		15
119	A Non-Linear Approach to ECG Signal Processing using Morphological Filters. *International Journal on Measurement Technologies and Instrumentation Engineering*, **2013**, 3, 46-59		15
118	A log-ratio based unsharp masking (UM) approach for enhancement of digital mammograms **2012**,		15
117	Performance Improvement of Decision Median Filter for Suppression of Salt and Pepper Noise. *Advances in Intelligent Systems and Computing*, **2014**, 287-297	0.4	15
116	An Improved Algorithm for Noise Suppression and Baseline Correction of ECG Signals. *Advances in Intelligent Systems and Computing*, **2013**, 733-739	0.4	15
115	Unsharp masking approaches for HVS based enhancement of mammographic masses: A comparative evaluation. *Future Generation Computer Systems*, **2018**, 82, 176-189	7.5	14
114	**2014**,		14

113	Non-linear quality evaluation index for mammograms **2013**,		14
112	**2014**,		14
111	Spatial filtering to detect brain sources from EEG measurements **2014**,		14
110	Mammographic Image Enhancement using Double Sigmoid Transformation Function **2010**,		14
109	A Novel Full Reference Image Quality Index for Color Images. *Advances in Intelligent and Soft Computing*, **2012**, 245-253		14
108	Handwritten Arabic numerals recognition using convolutional neural network. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 5445-5457	3.7	13
107	Speckle reduction in ultrasound images using an improved conductance function based on Anisotropic Diffusion **2014**,		13
106	**2014**,		13
105	A Modified Speckle Suppression Algorithm for Breast Ultrasound Images Using Directional Filters. *Advances in Intelligent Systems and Computing*, **2014**, 219-226	0.4	13
104	Energy optimization in WSNs employing rolling grey model **2014**,		12
103	Identification of Visual Evoked Potentials in EEG detection by emprical mode decomposition **2014**,		12
102	An improved Unsharp Masking algorithm for enhancement of mammographic masses **2012**,		12
101	. *IEEE Sensors Journal*, **2020**, 1-1	4	12
100	A Non-Local Means Filtering Algorithm for Restoration of Rician Distributed MRI. *Advances in Intelligent Systems and Computing*, **2015**, 1-8	0.4	12
99	Ant Colony Optimization Based Anisotropic Diffusion Approach for Despeckling of SAR Images. *Lecture Notes in Computer Science*, **2016**, 389-396	0.9	12
98	A Reconstruction Based Measure for Assessment of Mammogram Edge-Maps. *Advances in Intelligent Systems and Computing*, **2013**, 741-746	0.4	12
97	Reduced reference IQA based on structural dissimilarity **2014**,		11
96	A no-reference contrast assessment index based on foreground and background **2013**,		11

95	Medical Image Fusion in Curvelet Domain Employing PCA and Maximum Selection Rule. *Advances in Intelligent Systems and Computing*, **2016**, 1-9	0.4	11
94	A comprehensive handwritten Indic script recognition system: a tree-based approach. *Journal of Ambient Intelligence and Humanized Computing*, **2018**, 1	3.7	11
93	A histogram based fuzzy ensemble technique for feature selection. *Evolutionary Intelligence*, **2019**, 12, 713-724	1.7	10
92	Combination of EEMD and Morphological Filtering for Baseline Wander Correction in EMG Signals. *Lecture Notes in Electrical Engineering*, **2018**, 365-373	0.2	10
91	**2014**,		10
90	Despeckling of ultrasound images using non-linear conductance function **2014**,		10
89	ANN-Based Classification of Mammograms Using Nonlinear Preprocessing. *Lecture Notes in Electrical Engineering*, **2018**, 375-382	0.2	10
88	Enhancement of Brain MR-T1/T2 Images Using Mathematical Morphology. *Advances in Intelligent Systems and Computing*, **2020**, 833-840	0.4	10
87	PCA Based Medical Image Fusion in Ridgelet Domain. *Advances in Intelligent Systems and Computing* , **2015**, 475-482	0.4	9
86	A reduced reference distortion estimation measure for color images **2014**,		9
85	A New Contrast Measurement Index Based on Logarithmic Image Processing Model. *Advances in Intelligent Systems and Computing*, **2013**, 715-723	0.4	9
84	A Novel Color Edge Detection Technique Using Hilbert Transform. *Advances in Intelligent Systems and Computing*, **2013**, 725-732	0.4	9
83	Restoration Algorithm for Gaussian Corrupted MRI Using Non-local Averaging. *Advances in Intelligent Systems and Computing*, **2015**, 831-840	0.4	9
82	Noise Removal in EEG Signals Using SWTICA Combinational Approach. *Smart Innovation, Systems and Technologies*, **2019**, 217-224	0.5	9
81	Novel approaches towards slope and slant correction for tri-script handwritten word images. *Imaging Science Journal*, **2019**, 67, 159-170	0.9	8
80	Image similarity metric (ISIM): a reduced reference image quality assessment approach. *CSI Transactions on ICT*, **2015**, 3, 1-11	0.4	8
79	Weighted-PCA Based Multimodal Medical Image Fusion in Contourlet Domain. *Advances in Intelligent Systems and Computing*, **2016**, 597-605	0.4	8
78	Combination of PCA and Contourlets for Multispectral Image Fusion. *Advances in Intelligent Systems and Computing*, **2017**, 577-585	0.4	8

77	Contrast Improvement of Mammographic Masses Using Adaptive Volterra Filter. *Lecture Notes in Electrical Engineering*, **2013**, 583-593	0.2	8
76	A new model for performance evaluation of denoising algorithms based on image quality assessment **2012**,		8
75	An Evaluation of Edge Detection Algorithms for Mammographic Calcifications. *Lecture Notes in Electrical Engineering*, **2013**, 487-498	0.2	8
74	Feature Fusion and Classification of EEG/EOG Signals. *Advances in Intelligent Systems and Computing*, **2019**, 793-799	0.4	7
73	A Reduced Reference Distortion Measure for Performance Improvement of Smart Cameras. *IEEE Sensors Journal*, **2015**, 15, 2531-2540	4	7
72	Classification of Mammograms Using Sigmoidal Transformation and SVM. *Smart Innovation, Systems and Technologies*, **2018**, 193-199	0.5	7
71	**2014**,		7
70	An Efficient Cluster-Based Routing Protocol for WSNs Using Time Series Prediction-Based Data Reduction Scheme. *International Journal on Measurement Technologies and Instrumentation Engineering*, **2013**, 3, 18-34		7
69	**2019**,		7
68	Statistical Wavelets With Harmony Search- Based Optimal Feature Selection of EEG Signals for Motor Imagery Classification. *IEEE Sensors Journal*, **2021**, 21, 14263-14271	4	7
67	Data augmentation for cancer classification in oncogenomics: an improved KNN based approach. *Evolutionary Intelligence*, **2021**, 14, 489-498	1.7	7
66	An Optimized Anisotropic Diffusion Approach for Despeckling of SAR Images. *Communications in Computer and Information Science*, **2016**, 134-140	0.3	6
65	Intelligent Computing in Multidisciplinary Engineering Applications. *Arabian Journal for Science and Engineering*, **2018**, 43, 3861-3862	2.5	6
64	Multispectral medical image fusion scheme based on hybrid contourlet and shearlet transform domains. *Review of Scientific Instruments*, **2018**, 89, 084301	1.7	6
63	Synthesis of flash and no-flash image pairs using guided image filtering **2015**,		5
62	A Novel Cluster Head Selection and Routing Scheme for Wireless Sensor Networks. *Advances in Intelligent Systems and Computing*, **2014**, 403-415	0.4	5
61	Communication Device for Differently Abled People: A Prototype Model. *Advances in Intelligent Systems and Computing*, **2017**, 565-575	0.4	5
60	A Novel HVS Based Image Contrast Measurement Index. *Lecture Notes in Electrical Engineering*, **2013**, 545-555	0.2	5

59	Combination of Wavelets and Hard Thresholding for Analysis of Cough Signals **2018**,		5
58	Kuan Modified Anisotropic Diffusion Approach for Speckle Filtering. *Advances in Intelligent Systems and Computing*, **2017**, 537-545	0.4	4
57	Multispectral Medical Image Fusion using PCA in Wavelet Domain **2016**,		4
56	NSCT based multispectral medical image fusion model **2016**,		4
55	MMHAR-EnsemNet: A Multi-Modal Human Activity Recognition Model. *IEEE Sensors Journal*, **2021**, 21, 11569-11576	4	4
54	COFE-Net: An ensemble strategy for Computer-Aided Detection for COVID-19. *Measurement: Journal of the International Measurement Confederation*, **2022**, 187, 110289	4.6	4
53	Skull Stripping of Brain MRI Using Mathematical Morphology. *Smart Innovation, Systems and Technologies*, **2020**, 775-780	0.5	4
52	Autoregressive Modeling-Based Feature Extraction of EEG/EOG Signals. *Smart Innovation, Systems and Technologies*, **2019**, 731-739	0.5	4
51	Propagation Analysis of COVID-19: An SIR Model-Based Investigation of the Pandemic. *Arabian Journal for Science and Engineering*, **2021**, 1-13	2.5	4
50	Two-stage multi-modal MR images fusion method based on Parametric Logarithmic Image Processing (PLIP) Model. *Pattern Recognition Letters*, **2020**, 136, 25-30	4.7	3
49	Non-local Mean Filter for Suppression of Speckle Noise in Ultrasound Images. *Smart Innovation, Systems and Technologies*, **2019**, 225-232	0.5	3
48	Artificial Neural Networks Based Fusion and Classification of EEG/EOG Signals. *Advances in Intelligent Systems and Computing*, **2019**, 141-148	0.4	3
47	Arbitrary oriented multilingual text detection and segmentation using level set and Gaussian mixture model. *Evolutionary Intelligence*, **2021**, 14, 881-894	1.7	3
46	Enhancement of Retinal Images Using Morphological Filters. *Advances in Intelligent Systems and Computing*, **2021**, 351-357	0.4	3
45	A parallel max-min ant system algorithm for dynamic resource allocation to support QoS requirements **2017**,		2
44	Visible-Infrared Image Fusion Method Using Anisotropic Diffusion. *Advances in Intelligent Systems and Computing*, **2018**, 525-532	0.4	2
43	Differential Evolution and Deterministic Chaotic Series: A Detailed Study. *Mendel*, **2018**, 24,	1.4	2
42	Speckle Suppression and Enhancement Approaches for Processing of SAR Images: A Technical Review. *Smart Innovation, Systems and Technologies*, **2020**, 695-703	0.5	2

41	An Improved Kuan Algorithm for Despeckling of SAR Images. *Advances in Intelligent Systems and Computing*, **2016**, 663-672	0.4	2
40	Suppression of Speckle Noise in Ultrasound Images Using Bilateral Filter. *Smart Innovation, Systems and Technologies*, **2019**, 735-741	0.5	2
39	Continuous Wavelets for Pre-processing and Analysis of Cough Signals. *Smart Innovation, Systems and Technologies*, **2020**, 711-718	0.5	2
38	On Analysis of Suitable Wavelet Family for Processing of Cough Signals. *Advances in Intelligent Systems and Computing*, **2020**, 194-200	0.4	2
37	An Evaluation of Contrast Enhancement of Brain MR Images Using Morphological Filters. *Advances in Intelligent Systems and Computing*, **2020**, 571-577	0.4	2
36	An Edge Detection Approach for Images Contaminated with Gaussian and Impulse Noises. *Lecture Notes in Electrical Engineering*, **2013**, 523-533	0.2	2
35	Non-Linear Filters for Mammogram Enhancement. *Studies in Computational Intelligence*, **2020**,	0.8	2
34	A Contrast Enhancement Model for X-Ray Mammograms Using Modified Local s-Curve Transformation Based on Multi-Objective Optimization. *IEEE Sensors Journal*, **2020**, 1-1	4	2
33	Rayleigh based bilateral filtering for flash and no-flash image pairs **2015**,		1
32	GSM Based Automated Detection Model for Improvised Explosive Devices. *Advances in Intelligent Systems and Computing*, **2016**, 673-681	0.4	1
31	AWGN Suppression Algorithm in EMG Signals Using Ensemble Empirical Mode Decomposition. *Advances in Intelligent Systems and Computing*, **2018**, 515-524	0.4	1
30	Multi-exposure Image Fusion Method Using Anisotropic Diffusion. *Advances in Intelligent Systems and Computing*, **2019**, 893-900	0.4	1
29	Non-Linear Polynomial Filters for Contrast Enhancement of Mammograms. *Studies in Computational Intelligence*, **2020**, 123-162	0.8	1
28	Enhancement of Synthetic-Aperture Radar (SAR) Images Based on Dynamic Unsharp Masking. *Advances in Intelligent Systems and Computing*, **2021**, 857-863	0.4	1
27	Improved Non-Linear Polynomial Filters for Contrast Enhancement of Breast Tumors. *Smart Innovation, Systems and Technologies*, **2016**, 461-468	0.5	1
26	Bilateral Filtering in Wavelet Domain for Synthesis of Flash and No-Flash Image Pairs. *Advances in Intelligent Systems and Computing*, **2015**, 797-805	0.4	1
25	Cough Sound Analysis in Transform Domain for Classification of Respiratory Disorders. *Advances in Intelligent Systems and Computing*, **2021**, 865-872	0.4	1
24	Wavelet-based medical image fusion via a non-linear operator **2016**,		1

23	Speckle Noise Suppression in Ultrasound Images by Using an Improved Non-local Mean Filter. *Advances in Intelligent Systems and Computing*, **2019**, 13-19	0.4	1
22	Region Labeling Based Brain Tumor Segmentation from MR Images. *Smart Innovation, Systems and Technologies*, **2021**, 825-831	0.5	1
21	Discrete Wavelet Transform-Based Fusion of Mammogram Images for Contrast Improvement. *Lecture Notes in Electrical Engineering*, **2022**, 203-210	0.2	1
20	Baseline Correction in EMG Signals Using Mathematical Morphology and Canonical Correlation Analysis. *Advances in Intelligent Systems and Computing*, **2018**, 581-589	0.4	0
19	Non-Linear Enhancement Techniques for Mammograms. *Studies in Computational Intelligence*, **2020** , 55-62	0.8	0
18	Exploration of Wavelets for Pre-processing of Speech Signals. *Lecture Notes in Networks and Systems*, **2021**, 475-483	0.5	0
17	Multi-focus Image Fusion Method Using 2D-Wavelet Analysis and PCA. *Smart Innovation, Systems and Technologies*, **2018**, 616-623	0.5	
16	Human Visual System Based Unsharp Masking for Enhancement of Mammograms. *Studies in Computational Intelligence*, **2020**, 199-222	0.8	
15	Non-Linear Polynomial Filters for Edge Enhancement of Mammograms. *Studies in Computational Intelligence*, **2020**, 163-197	0.8	
14	Contrast Stretching Techniques for Enhancement of Mammograms. *Studies in Computational Intelligence*, **2020**, 35-45	0.8	
13	Mobile Mammography: Technological Improvements Using Non-Linear Polynomial Filters. *Studies in Computational Intelligence*, **2020**, 225-231	0.8	
12	Despeckling of Synthetic Aperture Radar (SAR) Images Using Local Statistics-Based Adaptive Filtering. *Advances in Intelligent Systems and Computing*, **2020**, 683-689	0.4	
11	Modified Non Linear Diffusion Approach for Multiplicative Noise. *Advances in Intelligent Systems and Computing*, **2017**, 343-350	0.4	
10	Medical Image Fusion in Wavelet and Ridgelet Domains **2017**, 711-723		
9	Glaucoma Detection Using Morphological Filters and GLCM Features. *Smart Innovation, Systems and Technologies*, **2021**, 627-635	0.5	
8	Localization of Optic Cup-Disc in Retinal Images Using Morphological Filters for Glaucoma Detection. *Smart Innovation, Systems and Technologies*, **2021**, 817-824	0.5	
7	Stationary Wavelet-Based Fusion Approach for Enhancement of Microscopy Images. *Smart Innovation, Systems and Technologies*, **2022**, 333-341	0.5	
6	Segmentation of Microscopy Images Using Guided Filter and Otsu Thresholding. *Lecture Notes in Electrical Engineering*, **2022**, 233-239	0.2	

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5	Contrast Enhancement of CT-Scan Images of Lungs Using Morphological Filters. *Lecture Notes in Electrical Engineering*, **2022**, 241-247	0.2
4	An Improved Unsharp Masking (UM) Filter with GL Mask. *Lecture Notes in Electrical Engineering*, **2022**, 225-231	0.2
3	Morphological Operation-Based Unsharp Masking Filter. *Smart Innovation, Systems and Technologies*, **2022**, 305-311	0.5
2	Multi-scale Retinex with Chromacity Preservation (MSRCP)-Based Contrast Enhancement of Microscopy Images. *Smart Innovation, Systems and Technologies*, **2022**, 313-321	0.5
1	Mammogram Image Fusion using Sigmoidal Function and Max. Fusion Rule. *Smart Innovation, Systems and Technologies*, **2022**, 323-329	0.5