V B Surya Prasath

List of Publications by Citations

145 papers	1,441 citations	20 h-index	31 g-index
163 ext. papers	2,069 ext. citations	2.6 avg, IF	5.59 L-index

#	Paper	IF	Citations
145	Choosing Mutation and Crossover Ratios for Genetic Algorithms—A Review with a New Dynamic Approach. *Information (Switzerland)*, **2019**, 10, 390	2.6	119
144	Effects of Distance Measure Choice on K-Nearest Neighbor Classifier Performance: A Review. *Big Data*, **2019**, 7, 221-248	3.1	92
143	Methods on Skull Stripping of MRI Head Scan Images-a Review. *Journal of Digital Imaging*, **2016**, 29, 365-379	3.3	77
142	Multiscale Tikhonov-Total Variation Image Restoration Using Spatially Varying Edge Coherence Exponent. *IEEE Transactions on Image Processing*, **2015**, 24, 5220-35	8.7	54
141	A Review on CT and X-Ray Images Denoising Methods. *Informatica (Slovenia)*, **2019**, 43,	2.3	40
140	Melanoma Skin Cancer Detection Method Based on Adaptive Principal Curvature, Colour Normalisation and Feature Extraction with the ABCD Rule. *Journal of Digital Imaging*, **2020**, 33, 574-585	3.3	37
139	Polyp Detection and Segmentation from Video Capsule Endoscopy: A Review. *Journal of Imaging*, **2017**, 3, 1	3.1	35
138	Fast and globally convex multiphase active contours for brain MRI segmentation. *Computer Vision and Image Understanding*, **2014**, 125, 237-250	4.3	32
137	Automatic polyp detection in pillcam colon 2 capsule images and videos: preliminary feasibility report. *Diagnostic and Therapeutic Endoscopy*, **2011**, 2011, 182435	0	31
136	LISA: Lightweight context-aware IoT service architecture. *Journal of Cleaner Production*, **2019**, 212, 1345-1356	7.1	30
135	Adaptive total variation L1 regularization for salt and pepper image denoising. *Optik*, **2020**, 208, 163677	2.5	28
134	A Skin Lesion Segmentation Method for Dermoscopic Images Based on Adaptive Thresholding with Normalization of Color Models **2019**,		26
133	Automatic disease stage classification of glioblastoma multiforme histopathological images using deep convolutional neural network. *Biomedical Engineering Letters*, **2018**, 8, 321-327	3.6	26
132	Weighted and well-balanced anisotropic diffusion scheme for image denoising and restoration. *Nonlinear Analysis: Real World Applications*, **2014**, 17, 33-46	2.1	25
131	An adaptive method for image restoration based on high-order total variation and inverse gradient. *Signal, Image and Video Processing*, **2020**, 14, 1189-1197	1.6	24
130	A hybrid convex variational model for image restoration. *Applied Mathematics and Computation*, **2010**, 215, 3655-3664	2.7	24
129	In situ mapping identifies distinct vascular niches for myelopoiesis. *Nature*, **2021**, 590, 457-462	50.4	24

128	Well-Posed Inhomogeneous Nonlinear Diffusion Scheme for Digital Image Denoising. *Journal of Applied Mathematics*, **2010**, 2010, 1-14	1.1	22
127	Multispectral image denoising by well-posed anisotropic diffusion scheme with channel coupling. *International Journal of Remote Sensing*, **2010**, 31, 2091-2099	3.1	20
126	BLOOD VESSELS SEGMENTATION METHOD FOR RETINAL FUNDUS IMAGES BASED ON ADAPTIVE PRINCIPAL CURVATURE AND IMAGE DERIVATIVE OPERATORS. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, **2019**, XLII-2/W12, 211-218	2.5	20
125	An adaptive image inpainting method based on the modified mumford-shah model and multiscale parameter estimation. *Computer Optics*, **2019**, 43, 251-257	1.4	18
124	On a System of Adaptive Coupled PDEs for Image Restoration. *Journal of Mathematical Imaging and Vision*, **2014**, 48, 35-52	1.6	17
123	Classification and gender recognition from veiled-faces. *International Journal of Biometrics*, **2017**, 9, 347	0.4	16
122	Structure tensor adaptive total variation for image restoration. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2019**, 1147-1156	0.9	16
121	An Improved Genetic Algorithm with a New Initialization Mechanism Based on Regression Techniques. *Information (Switzerland)*, **2018**, 9, 167	2.6	16
120	Heterogeneous Multi-View Information Fusion: Review of 3-D Reconstruction Methods and a New Registration with Uncertainty Modeling. *IEEE Access*, **2016**, 4, 8264-8285	3.5	15
119	Multiscale Structure Tensor for Improved Feature Extraction and Image Regularization. *IEEE Transactions on Image Processing*, **2019**, 28, 6198-6210	8.7	15
118	AN ADAPTIVE DIFFUSION SCHEME FOR IMAGE RESTORATION AND SELECTIVE SMOOTHING. *International Journal of Image and Graphics*, **2012**, 12, 1250003	0.5	14
117	HEp-2 cell classification and segmentation using motif texture patterns and spatial features with random forests **2016**,		14
116	A Study on Nuclei Segmentation, Feature Extraction and Disease Stage Classification for Human Brain Histopathological Images. *Procedia Computer Science*, **2016**, 96, 1202-1210	1.6	13
115	A two-stage filter for high density salt and pepper denoising. *Multimedia Tools and Applications*, **2020**, 79, 21013-21035	2.5	12
114	Radar shadow detection in synthetic aperture radar images using digital elevation model and projections. *Journal of Applied Remote Sensing*, **2014**, 8, 1	1.4	12
113	Magnetic energy-based feature extraction for low-quality fingerprint images. *Signal, Image and Video Processing*, **2018**, 12, 1471-1478	1.6	12
112	Adaptive Switching Weight Mean Filter for Salt and Pepper Image Denoising. *Procedia Computer Science*, **2020**, 171, 292-301	1.6	11
111	Letter to the Editor: Brief history of transcranial direct current stimulation (tDCS): from electric fishes to microcontrollers. *Psychological Medicine*, **2016**, 46, 3259-3261	6.9	11

110	Random Forests for Dura Mater Microvasculature Segmentation Using Epifluorescence Images. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 2901-2904	0.9	11
109	Microvasculature segmentation of arterioles using deep CNN **2017**,		11
108	A well-posed multiscale regularization scheme for digital image denoising. *International Journal of Applied Mathematics and Computer Science*, **2011**, 21, 769-777	1.7	11
107	Automatic Initial Boundary Generation Methods Based on Edge Detectors for the Level Set Function of the Chan-Vese Segmentation Model and Applications in Biomedical Image Processing. *Advances in Intelligent Systems and Computing*, **2020**, 171-181	0.4	11
106	Computational Nuclei Segmentation Methods in Digital Pathology: A Survey. *Archives of Computational Methods in Engineering*, **2021**, 28, 1-13	7.8	11
105	A study on feature extraction and disease stage classification for Glioma pathology images **2016**,		10
104	Improving the generalization of disease stage classification with deep CNN for Glioma histopathological images **2017**,		10
103	Multi-focus image fusion using epifluorescence microscopy for robust vascular segmentation. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 4735-8	0.9	10
102	Color image processing by vectorial total variation with gradient channels coupling. *Inverse Problems and Imaging*, **2016**, 10, 461-497	2.1	10
101	An adaptive image inpainting method based on euler's elastica with adaptive parameters estimation and the discrete gradient method. *Signal Processing*, **2021**, 178, 107797	4.4	10
100	On Selecting the Appropriate Scale in Image Selective Smoothing by Nonlinear Diffusion **2018**,		10
99	Analysis of adaptive forward-backward diffusion flows with applications in image processing. *Inverse Problems*, **2015**, 31, 105008	2.3	9
98	Mucosal region detection and 3D reconstruction in wireless capsule endoscopy videos using active contours. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 4014-7	0.9	9
97	Regularization Parameter Selection in Image Restoration with Inverse Gradient: Single Scale or Multiscale? **2018**,		9
96	Automatic segmentation of cerebral hemispheres in MR human head scans. *International Journal of Imaging Systems and Technology*, **2016**, 26, 15-23	2.5	8
95	Image denoising by anisotropic diffusion with inter-scale information fusion. *Pattern Recognition and Image Analysis*, **2017**, 27, 748-753	1	8
94	MULTISCALE TENSOR ANISOTROPIC FILTERING OF FLUORESCENCE MICROSCOPY FOR DENOISING MICROVASCULATURE **2015**, 2015, 540-543	1.5	8
93	Cell nuclei segmentation in glioma histopathology images with color decomposition based active contours **2015**,		8

92	A Segmentation Model and Application to Endoscopic Images. *Lecture Notes in Computer Science*, **2012**, 164-171	0.9	8
91	Total Variation L1 Fidelity Salt-and-Pepper Denoising with Adaptive Regularization Parameter **2018** ,		8
90	An Improved BPDF Filter for High Density Salt and Pepper Denoising **2019**,		7
89	Image Restoration With Total Variation and Iterative Regularization Parameter Estimation **2017**,		7
88	Review of Computational Methods on Brain Symmetric and Asymmetric Analysis from Neuroimaging Techniques. *Technologies*, **2017**, 5, 16	2.4	7
87	Multichannel texture image segmentation using local feature fitting based variational active contours **2012**,		7
86	Multiscale Gradient Maps Augmented Fisher Information-Based Image Edge Detection. *IEEE Access*, **2020**, 8, 141104-141110	3.5	7
85	A Probabilistic Fusion Framework for 3-D Reconstruction Using Heterogeneous Sensors. *IEEE Sensors Journal*, **2017**, 17, 2640-2641	4	6
84	Victory sign biometrie for terrorists identification: Preliminary results **2017**,		5
83	Video haze removal and poisson blending based mini-mosaics for wide area motion imagery **2016**,		5
82	Confocal Vessel Structure Segmentation with Optimized Feature Bank and Random Forests **2016**, 2016,		5
81	Elastic body spline based image segmentation **2014**,		5
80	Feature preserving anisotropic diffusion for image restoration **2013**,		5
79	Glioblastoma multiforme tissue histopathology images based disease stage classification with deep CNN **2017**,		5
78	Robust periocular recognition by fusing local to holistic sparse representations **2013**,		5
77	Ringing Artifact Reduction in Blind Image Deblurring and Denoising Problems by Regularization Methods **2009**,		5
76	Quantum Noise Removal in X-Ray Images with Adaptive Total Variation Regularization. *Informatica*, **2017**, 28, 505-515	2.9	5
75	Color Image Segmentation Based on Vectorial Multiscale Diffusion with Inter-scale Linking. *Lecture Notes in Computer Science*, **2009**, 339-344	0.9	5

74	DeepImmuno: deep learning-empowered prediction and generation of immunogenic peptides for T-cell immunity. *Briefings in Bioinformatics*, **2021**, 22,	13.4	5
73	Optimal Nonlinear Signal Approximations Based on Piecewise Constant Functions. *Circuits, Systems, and Signal Processing*, **2020**, 39, 2673-2694	2.2	5
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71	Image Restoration with Fuzzy Coefficient Driven Anisotropic Diffusion. *Lecture Notes in Computer Science*, **2015**, 145-155	0.9	4
70	Scientometric analysis of social science and science disciplines in a developing nation: a case study of Pakistan in the last decade. *Scientometrics*, **2020**, 123, 113-142	3	4
69	SentiML ++: an extension of the SentiML sentiment annotation scheme. *New Review of Hypermedia and Multimedia*, **2018**, 24, 28-43	0.8	4
68	Robust Periocular Recognition by Fusing Sparse Representations of Color and Geometry Information. *Journal of Signal Processing Systems*, **2016**, 82, 403-417	1.4	4
67	Systematic review and usability evaluation of writing mobile apps for children. *New Review of Hypermedia and Multimedia*, **2019**, 25, 137-160	0.8	4
66	Feature extraction and disease stage classification for Glioma histopathology images **2015**,		4
65	On Optimal Multi-Sensor Network Configuration for 3D Registration. *Journal of Sensor and Actuator Networks*, **2015**, 4, 293-314	3.8	4
64	Edge Detectors Based Anisotropic Diffusion for Enhancement of Digital Images **2008**,		4
63	Deep learning based computer-aided diagnosis for neuroimaging data: focused review and future potential. *Neuroimmunology and Neuroinflammation*, **2018**, 5, 1	3.4	4
62	Human Visual System Consistent Model for Wireless Capsule Endoscopy Image Enhancement and Applications. *Pattern Recognition and Image Analysis*, **2020**, 30, 280-287	1	4
61	Multiquadric Spline-Based Interactive Segmentation of Vascular Networks. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5913-5916	0.9	4
60	Generation of fashionable clothes using generative adversarial networks. *International Journal of Clothing Science and Technology*, **2019**, 32, 177-187	0.7	4
59	Image Denoising with Overlapping Group Sparsity and Second Order Total Variation Regularization **2019**,		4
58	Single Image Dehazing Based on Adaptive Histogram Equalization and Linearization of Gamma Correction **2019**,		4
57	On Computerizing the Ancient Game of T□. *International Journal of Gaming and Computer-Mediated Simulations*, **2018**, 10, 20-40	0.7	4

56	**2019**,		3
55	Adaptive Thresholding Skin Lesion Segmentation with Gabor Filters and Principal Component Analysis. *Advances in Intelligent Systems and Computing*, **2020**, 811-820	0.4	3
54	On time adaptive critical variable exponent vectorial diffusion flows and their applications in image processing I: Analysis. *Nonlinear Analysis: Theory, Methods & Applications*, **2018**, 168, 176-197	1.3	3
53	On convergent finite difference schemes for variational-PDE-based image processing. *Computational and Applied Mathematics*, **2018**, 37, 1562-1580		3
52	Distorted Image Reconstruction Method with Trimmed Median **2019**,		3
51	Image Inpainting Method Based on Mixed Median **2019**,		3
50	Weighted laplacian differences based multispectral anisotropic diffusion **2011**,		3
49	Controlled Inverse Diffusion Models for Image Restoration and Enhancement **2008**,		3
48	Recent developments in computational color image denoising with PDEs to deep learning: a review. *Artificial Intelligence Review*, **2021**, 54, 6245	9.7	3
47	A Fast Denoising Algorithm for X-Ray Images with Variance Stabilizing Transform **2019**,		3
46	Impulse denoising based on noise accumulation and harmonic analysis techniques. *Optik*, **2021**, 241, 166163	1.3	3
45	Skin lesion segmentation method for dermoscopic images with convolutional neural networks and semantic segmentation. *Computer Optics*, **2021**, 45, 122-129	1.4	3
44	Automatic Image Segmentation for Video Capsule Endoscopy. *SpringerBriefs in Applied Sciences and Technology*, **2015**, 73-80	0.4	2
43	Assisted ground truth generation using interactive segmentation on a visualization and annotation tool **2016**,		2
42	Csang: continuous scale anisotropic Gaussians for robust linear structure extraction **2016**,		2
41	Mixed Noise Removal Using Hybrid Fourth Order Mean Curvature Motion. *Advances in Intelligent Systems and Computing*, **2016**, 625-632	0.4	2
40	An Algorithm for Data Hiding in Radiographic Images and ePHI/R Application. *Technologies*, **2018**, 6, 7	2.4	2
39	Automatic Contrast Enhancement for Wireless Capsule Endoscopy Videos with Spectral Optimal Contrast-Tone Mapping. *Smart Innovation, Systems and Technologies*, **2015**, 243-250	0.5	2

38	Analysis of a robust edge detection system in different color spaces using color and depth images. *Computer Optics*, **2019**, 43, 632-646	1.4	2
37	Measuring Bone Density Connectivity Using Dual Energy X-Ray Absorptiometry Images. *International Journal of Fuzzy Logic and Intelligent Systems*, **2017**, 17, 235-244	1.8	2
36	Development of a Web Based Image Annotation Tool for Lung Immunofluorescent Confocal Images. *International Symposium on Affective Science and Engineering*, **2018**, ISASE2018, 1-5	0.2	2
35	Location Verification Technique for Cluster Based Geographical Routing in MANET. *Informatica*, **2020**, 113-130	2.9	2
34	A systematic study on the role of SentiWordNet in opinion mining. *Frontiers of Computer Science*, **2021**, 15, 1	2.2	2
33	Persian Classical Music Instrument Recognition (PCMIR) Using a Novel Persian Music Database **2019** ,		2
32	Machine Learning for Detection of Correct Peripherally Inserted Central Catheter Tip Position from Radiology Reports in Infants. *Applied Clinical Informatics*, **2021**, 12, 856-863	3.1	2
31	Evolution of Wireless Communications with 3G, 4G, 5G, and Next Generation Technologies in India. *Lecture Notes in Electrical Engineering*, **2021**, 355-359	0.2	2
30	Ensemble Learning for Data-Driven Diagnosis of Polycystic Ovary Syndrome. *Lecture Notes in Networks and Systems*, **2022**, 1250-1259	0.5	2
29	Automatic Mucosa Detection in Video Capsule Endoscopy with Adaptive Thresholding. *Advances in Intelligent Systems and Computing*, **2016**, 95-102	0.4	1
28	Adaptive Nonlocal Filtering for Brain MRI Restoration. *Advances in Intelligent Systems and Computing*, **2016**, 571-580	0.4	1
27	On Video Based Human Abnormal Activity Detection with Histogram of Oriented Gradients **2019**, 431-448		1
26	Color Image Restoration with Fuzzy Gaussian Mixture Model Driven Nonlocal Filter. *Communications in Computer and Information Science*, **2015**, 137-145	0.3	1
25	Vascularization features for polyp localization in capsule endoscopy **2015**,		1
24	Automatic Contrast Parameter Estimation in Anisotropic Diffusion for Image Restoration. *Communications in Computer and Information Science*, **2014**, 198-206	0.3	1
23	Feature fusion and label propagation for textured object video segmentation **2014**,		1
22	FPGA implementation of OpenCV compatible background identification circuit **2012**, 97-102		1
21	DeepImmuno: Deep learning-empowered prediction and generation of immunogenic peptides for T cell immunity **2020**,		1

20	On a hybrid lossless compression technique for three-dimensional medical images. *Journal of Applied Clinical Medical Physics*, **2021**, 22, 191-203	2.3	1
19	COMPUTATIONAL 2D and 3D MEDICAL IMAGE DATA COMPRESSION MODELS.. *Archives of Computational Methods in Engineering*, **2022**, 29, 975-1007	7.8	1
18	POCASUM : Policy Categorizer and Summarizer Based on Text Mining and Machine Learning.. *Soft Computing*, **2021**, 25, 9365-9375	3.5	1
17	Multi-Class Segmentation of Lung Immunofluorescence Confocal Images Using Deep Learning **2019** ,		1
16	Compression artifacts reduction with multiscale tensor regularization. *Multidimensional Systems and Signal Processing*, **2021**, 32, 521-531	1.8	1
15	On Numerical Implementation of the Laplace Equation-Based Image Inpainting. *IOP Conference Series: Materials Science and Engineering*, **2021**, 1022, 012034	0.4	1
14	Multiregion Multiscale Image Segmentation with Anisotropic Diffusion. *Lecture Notes in Computer Science*, **2021**, 129-140	0.9	1
13	Brain tissue volume estimation to detect Alzheimer's disease in magnetic resonance images. *Soft Computing*, **2021**, 25, 10007-10017	3.5	1
12	Glioma Subtypes Clustering Method using Histopathological Image Analysis **2018**,		1
11	Dementia classification using MR imaging and clinical data with voting based machine learning models. *Multimedia Tools and Applications*,1	2.5	1
10	LungMAP Portal Ecosystem: Systems-Level Exploration of the Lung		1
9	Automatic body mass index detection using correlation of face visual cues. *Technology and Health Care*, **2020**, 28, 107-112	1.1	0
8	BREAK, MAKE and TAKE: an information retrieval approach. *Sadhana - Academy Proceedings in Engineering Sciences*, **2019**, 44, 1	1	
7	Image Inpainting with Modified F-Transform. *Lecture Notes in Computer Science*, **2015**, 856-867	0.9	
6	Design and Construction of a Light-Detecting and Obstacle-Sensing Robot for IoT: Preliminary Feasibility Study **2019**, 59-79		
5	A Study on Nuclei Shape Features at the Classification of Glioma Disease Stage Using CNN. *IEEJ Transactions on Electronics, Information and Systems*, **2020**, 140, 1367-1368	0.1	
4	2Es of TIS **2020**, 45-70		
3	Improving seller–customer communication process using word embeddings. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 2257-2272	3.7	

2	Data Augmentation Using Generative Adversarial Networks for Multi-Class Segmentation of Lung Confocal IF Images. *Journal of Advanced Computational Intelligence and Intelligent Informatics*, **2022**, 26, 138-146	0.4
1	Second Order Monotone Difference Schemes with Approximation on Non-Uniform Grids for Two-Dimensional Quasilinear Parabolic Convection-Diffusion Equations. *Vestnik St Petersburg University: Mathematics*, **2020**, 53, 232-240	0.3