

V B Surya Prasath

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.

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	COMPUTATIONAL 2D and 3D MEDICAL IMAGE DATA COMPRESSION MODELS.. <i>Archives of Computational Methods in Engineering</i> , 2022 , 29, 975-1007	7.8	1
144	Ensemble Learning for Data-Driven Diagnosis of Polycystic Ovary Syndrome. <i>Lecture Notes in Networks and Systems</i> , 2022 , 1250-1259	0.5	2
143	Data Augmentation Using Generative Adversarial Networks for Multi-Class Segmentation of Lung Confocal IF Images. <i>Journal of Advanced Computational Intelligence and Intelligent Informatics</i> , 2022 , 26, 138-146	0.4	
142	Recent developments in computational color image denoising with PDEs to deep learning: a review. <i>Artificial Intelligence Review</i> , 2021 , 54, 6245	9.7	3
141	On a hybrid lossless compression technique for three-dimensional medical images. <i>Journal of Applied Clinical Medical Physics</i> , 2021 , 22, 191-203	2.3	1
140	DeepImmuno: deep learning-empowered prediction and generation of immunogenic peptides for T-cell immunity. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	5
139	A systematic study on the role of SentiWordNet in opinion mining. <i>Frontiers of Computer Science</i> , 2021 , 15, 1	2.2	2
138	POCASUM : Policy Categorizer and Summarizer Based on Text Mining and Machine Learning.. <i>Soft Computing</i> , 2021 , 25, 9365-9375	3.5	1
137	Compression artifacts reduction with multiscale tensor regularization. <i>Multidimensional Systems and Signal Processing</i> , 2021 , 32, 521-531	1.8	1
136	Improving seller&customer communication process using word embeddings. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 2257-2272	3.7	
135	An adaptive image inpainting method based on euler's elastica with adaptive parameters estimation and the discrete gradient method. <i>Signal Processing</i> , 2021 , 178, 107797	4.4	10
134	Impulse denoising based on noise accumulation and harmonic analysis techniques. <i>Optik</i> , 2021 , 241, 166163	1.3	3
133	Computational Nuclei Segmentation Methods in Digital Pathology: A Survey. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1-13	7.8	11
132	On Numerical Implementation of the Laplace Equation-Based Image Inpainting. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1022, 012034	0.4	1
131	Multiregion Multiscale Image Segmentation with Anisotropic Diffusion. <i>Lecture Notes in Computer Science</i> , 2021 , 129-140	0.9	1
130	Skin lesion segmentation method for dermoscopic images with convolutional neural networks and semantic segmentation. <i>Computer Optics</i> , 2021 , 45, 122-129	1.4	3
129	In situ mapping identifies distinct vascular niches for myelopoiesis. <i>Nature</i> , 2021 , 590, 457-462	50.4	24

128	Brain tissue volume estimation to detect Alzheimer's disease in magnetic resonance images. <i>Soft Computing</i> , 2021 , 25, 10007-10017	3.5	1
127	Machine Learning for Detection of Correct Peripherally Inserted Central Catheter Tip Position from Radiology Reports in Infants. <i>Applied Clinical Informatics</i> , 2021 , 12, 856-863	3.1	2
126	Evolution of Wireless Communications with 3G, 4G, 5G, and Next Generation Technologies in India. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 355-359	0.2	2
125	Adaptive Switching Weight Mean Filter for Salt and Pepper Image Denoising. <i>Procedia Computer Science</i> , 2020 , 171, 292-301	1.6	11
124	Scientometric analysis of social science and science disciplines in a developing nation: a case study of Pakistan in the last decade. <i>Scientometrics</i> , 2020 , 123, 113-142	3	4
123	An adaptive method for image restoration based on high-order total variation and inverse gradient. <i>Signal, Image and Video Processing</i> , 2020 , 14, 1189-1197	1.6	24
122	A two-stage filter for high density salt and pepper denoising. <i>Multimedia Tools and Applications</i> , 2020 , 79, 21013-21035	2.5	12
121	Adaptive Thresholding Skin Lesion Segmentation with Gabor Filters and Principal Component Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 811-820	0.4	3
120	Location Verification Technique for Cluster Based Geographical Routing in MANET. <i>Informatica</i> , 2020 , 113-130	2.9	2
119	A Study on Nuclei Shape Features at the Classification of Glioma Disease Stage Using CNN. <i>IEEE Transactions on Electronics, Information and Systems</i> , 2020 , 140, 1367-1368	0.1	
118	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. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 171-181	0.4	11
117	DeepImmuno: Deep learning-empowered prediction and generation of immunogenic peptides for T cell immunity 2020 ,		1
116	Automatic body mass index detection using correlation of face visual cues. <i>Technology and Health Care</i> , 2020 , 28, 107-112	1.1	0
115	Adaptive total variation L1 regularization for salt and pepper image denoising. <i>Optik</i> , 2020 , 208, 163677	2.5	28
114	Melanoma Skin Cancer Detection Method Based on Adaptive Principal Curvature, Colour Normalisation and Feature Extraction with the ABCD Rule. <i>Journal of Digital Imaging</i> , 2020 , 33, 574-585	5.3	37
113	2Es of TIS 2020 , 45-70		
112	Multiscale Gradient Maps Augmented Fisher Information-Based Image Edge Detection. <i>IEEE Access</i> , 2020 , 8, 141104-141110	3.5	7
111	Human Visual System Consistent Model for Wireless Capsule Endoscopy Image Enhancement and Applications. <i>Pattern Recognition and Image Analysis</i> , 2020 , 30, 280-287	1	4

110	Optimal Nonlinear Signal Approximations Based on Piecewise Constant Functions. <i>Circuits, Systems, and Signal Processing</i> , 2020 , 39, 2673-2694	2.2	5
109	Second Order Monotone Difference Schemes with Approximation on Non-Uniform Grids for Two-Dimensional Quasilinear Parabolic Convection-Diffusion Equations. <i>Vestnik St Petersburg University: Mathematics</i> , 2020 , 53, 232-240	0.3	
108	2019 ,		3
107	Effects of Distance Measure Choice on K-Nearest Neighbor Classifier Performance: A Review. <i>Big Data</i> , 2019 , 7, 221-248	3.1	92
106	BREAK, MAKE and TAKE: an information retrieval approach. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019 , 44, 1	1	
105	An Improved BPDF Filter for High Density Salt and Pepper Denoising 2019 ,		7
104	OpinionMLD Opinion Markup Language for Sentiment Representation. <i>Symmetry</i> , 2019 , 11, 545	2.7	4
103	Distorted Image Reconstruction Method with Trimmed Median 2019 ,		3
102	A Skin Lesion Segmentation Method for Dermoscopic Images Based on Adaptive Thresholding with Normalization of Color Models 2019 ,		26
101	On Video Based Human Abnormal Activity Detection with Histogram of Oriented Gradients 2019 , 431-448		1
100	Multiscale Structure Tensor for Improved Feature Extraction and Image Regularization. <i>IEEE Transactions on Image Processing</i> , 2019 , 28, 6198-6210	8.7	15
99	Image Inpainting Method Based on Mixed Median 2019 ,		3
98	Systematic review and usability evaluation of writing mobile apps for children. <i>New Review of Hypermedia and Multimedia</i> , 2019 , 25, 137-160	0.8	4
97	An adaptive image inpainting method based on the modified mumford-shah model and multiscale parameter estimation. <i>Computer Optics</i> , 2019 , 43, 251-257	1.4	18
96	Analysis of a robust edge detection system in different color spaces using color and depth images. <i>Computer Optics</i> , 2019 , 43, 632-646	1.4	2
95	A Review on CT and X-Ray Images Denoising Methods. <i>Informatica (Slovenia)</i> , 2019 , 43,	2.3	40
94	BLOOD VESSELS SEGMENTATION METHOD FOR RETINAL FUNDUS IMAGES BASED ON ADAPTIVE PRINCIPAL CURVATURE AND IMAGE DERIVATIVE OPERATORS. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 2019 , XLII-2/W12, 211-218	2.5	20
93	Design and Construction of a Light-Detecting and Obstacle-Sensing Robot for IoT Preliminary Feasibility Study 2019 , 59-79		

92	Generation of fashionable clothes using generative adversarial networks. <i>International Journal of Clothing Science and Technology</i> , 2019 , 32, 177-187	0.7	4
91	Image Denoising with Overlapping Group Sparsity and Second Order Total Variation Regularization 2019 ,		4
90	Single Image Dehazing Based on Adaptive Histogram Equalization and Linearization of Gamma Correction 2019 ,		4
89	Choosing Mutation and Crossover Ratios for Genetic Algorithms: A Review with a New Dynamic Approach. <i>Information (Switzerland)</i> , 2019 , 10, 390	2.6	119
88	Persian Classical Music Instrument Recognition (PCMIR) Using a Novel Persian Music Database 2019 ,		2
87	Multi-Class Segmentation of Lung Immunofluorescence Confocal Images Using Deep Learning 2019 ,		1
86	Structure tensor adaptive total variation for image restoration. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2019 , 1147-1156	0.9	16
85	A Fast Denoising Algorithm for X-Ray Images with Variance Stabilizing Transform 2019 ,		3
84	LISA: Lightweight context-aware IoT service architecture. <i>Journal of Cleaner Production</i> , 2019 , 212, 1345-1356	1.3	30
83	On time adaptive critical variable exponent vectorial diffusion flows and their applications in image processing I: Analysis. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2018 , 168, 176-197	1.3	3
82	SentiML ++: an extension of the SentiML sentiment annotation scheme. <i>New Review of Hypermedia and Multimedia</i> , 2018 , 24, 28-43	0.8	4
81	On convergent finite difference schemes for variational PDE-based image processing. <i>Computational and Applied Mathematics</i> , 2018 , 37, 1562-1580		3
80	An Algorithm for Data Hiding in Radiographic Images and ePHI/R Application. <i>Technologies</i> , 2018 , 6, 7	2.4	2
79	Deep learning based computer-aided diagnosis for neuroimaging data: focused review and future potential. <i>Neuroimmunology and Neuroinflammation</i> , 2018 , 5, 1	3.4	4
78	Development of a Web Based Image Annotation Tool for Lung Immunofluorescent Confocal Images. <i>International Symposium on Affective Science and Engineering</i> , 2018 , ISASE2018, 1-5	0.2	2
77	Glioma Subtypes Clustering Method using Histopathological Image Analysis 2018 ,		1
76	Total Variation L1 Fidelity Salt-and-Pepper Denoising with Adaptive Regularization Parameter 2018 ,		8
75	Regularization Parameter Selection in Image Restoration with Inverse Gradient: Single Scale or Multiscale? 2018 ,		9

74	On Selecting the Appropriate Scale in Image Selective Smoothing by Nonlinear Diffusion 2018 ,		10
73	An Improved Genetic Algorithm with a New Initialization Mechanism Based on Regression Techniques. <i>Information (Switzerland)</i> , 2018 , 9, 167	2.6	16
72	On Computerizing the Ancient Game of TB. <i>International Journal of Gaming and Computer-Mediated Simulations</i> , 2018 , 10, 20-40	0.7	4
71	Magnetic energy-based feature extraction for low-quality fingerprint images. <i>Signal, Image and Video Processing</i> , 2018 , 12, 1471-1478	1.6	12
70	Automatic disease stage classification of glioblastoma multiforme histopathological images using deep convolutional neural network. <i>Biomedical Engineering Letters</i> , 2018 , 8, 321-327	3.6	26
69	A Probabilistic Fusion Framework for 3-D Reconstruction Using Heterogeneous Sensors. <i>IEEE Sensors Journal</i> , 2017 , 17, 2640-2641	4	6
68	Victory sign biometrie for terrorists identification: Preliminary results 2017 ,		5
67	Polyp Detection and Segmentation from Video Capsule Endoscopy: A Review. <i>Journal of Imaging</i> , 2017 , 3, 1	3.1	35
66	Image denoising by anisotropic diffusion with inter-scale information fusion. <i>Pattern Recognition and Image Analysis</i> , 2017 , 27, 748-753	1	8
65	Improving the generalization of disease stage classification with deep CNN for Glioma histopathological images 2017 ,		10
64	Image Restoration With Total Variation and Iterative Regularization Parameter Estimation 2017 ,		7
63	Glioblastoma multiforme tissue histopathology images based disease stage classification with deep CNN 2017 ,		5
62	Microvasculature segmentation of arterioles using deep CNN 2017 ,		11
61	Classification and gender recognition from veiled-faces. <i>International Journal of Biometrics</i> , 2017 , 9, 347	0.4	16
60	Review of Computational Methods on Brain Symmetric and Asymmetric Analysis from Neuroimaging Techniques. <i>Technologies</i> , 2017 , 5, 16	2.4	7
59	Quantum Noise Removal in X-Ray Images with Adaptive Total Variation Regularization. <i>Informatica</i> , 2017 , 28, 505-515	2.9	5
58	Measuring Bone Density Connectivity Using Dual Energy X-Ray Absorptiometry Images. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2017 , 17, 235-244	1.8	2
57	Letter to the Editor: Brief history of transcranial direct current stimulation (tDCS): from electric fishes to microcontrollers. <i>Psychological Medicine</i> , 2016 , 46, 3259-3261	6.9	11

56	Heterogeneous Multi-View Information Fusion: Review of 3-D Reconstruction Methods and a New Registration with Uncertainty Modeling. <i>IEEE Access</i> , 2016 , 4, 8264-8285	3.5	15
55	A study on feature extraction and disease stage classification for Glioma pathology images 2016 ,		10
54	Random Forests for Dura Mater Microvasculature Segmentation Using Epifluorescence Images. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2901-2904	0.9	11
53	Video haze removal and poisson blending based mini-mosaics for wide area motion imagery 2016 ,		5
52	Assisted ground truth generation using interactive segmentation on a visualization and annotation tool 2016 ,		2
51	Csang: continuous scale anisotropic Gaussians for robust linear structure extraction 2016 ,		2
50	Confocal Vessel Structure Segmentation with Optimized Feature Bank and Random Forests 2016 , 2016,		5
49	Automatic segmentation of cerebral hemispheres in MR human head scans. <i>International Journal of Imaging Systems and Technology</i> , 2016 , 26, 15-23	2.5	8
48	Robust Periocular Recognition by Fusing Sparse Representations of Color and Geometry Information. <i>Journal of Signal Processing Systems</i> , 2016 , 82, 403-417	1.4	4
47	Automatic Mucosa Detection in Video Capsule Endoscopy with Adaptive Thresholding. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 95-102	0.4	1
46	Methods on Skull Stripping of MRI Head Scan Images-a Review. <i>Journal of Digital Imaging</i> , 2016 , 29, 365-373	3.9	77
45	Adaptive Nonlocal Filtering for Brain MRI Restoration. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 571-580	0.4	1
44	Mixed Noise Removal Using Hybrid Fourth Order Mean Curvature Motion. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 625-632	0.4	2
43	Color image processing by vectorial total variation with gradient channels coupling. <i>Inverse Problems and Imaging</i> , 2016 , 10, 461-497	2.1	10
42	HEp-2 cell classification and segmentation using motif texture patterns and spatial features with random forests 2016 ,		14
41	Multiquadric Spline-Based Interactive Segmentation of Vascular Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5913-5916	0.9	4
40	A Study on Nuclei Segmentation, Feature Extraction and Disease Stage Classification for Human Brain Histopathological Images. <i>Procedia Computer Science</i> , 2016 , 96, 1202-1210	1.6	13
39	Image Restoration with Fuzzy Coefficient Driven Anisotropic Diffusion. <i>Lecture Notes in Computer Science</i> , 2015 , 145-155	0.9	4

38	Image Inpainting with Modified F-Transform. <i>Lecture Notes in Computer Science</i> , 2015 , 856-867	0.9	
37	Multiscale Tikhonov-Total Variation Image Restoration Using Spatially Varying Edge Coherence Exponent. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 5220-35	8.7	54
36	Automatic Image Segmentation for Video Capsule Endoscopy. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015 , 73-80	0.4	2
35	Feature extraction and disease stage classification for Glioma histopathology images 2015 ,		4
34	MULTISCALE TENSOR ANISOTROPIC FILTERING OF FLUORESCENCE MICROSCOPY FOR DENOISING MICROVASCULATURE 2015 , 2015, 540-543	1.5	8
33	Analysis of adaptive forward-backward diffusion flows with applications in image processing. <i>Inverse Problems</i> , 2015 , 31, 105008	2.3	9
32	On Optimal Multi-Sensor Network Configuration for 3D Registration. <i>Journal of Sensor and Actuator Networks</i> , 2015 , 4, 293-314	3.8	4
31	Automatic Contrast Enhancement for Wireless Capsule Endoscopy Videos with Spectral Optimal Contrast-Tone Mapping. <i>Smart Innovation, Systems and Technologies</i> , 2015 , 243-250	0.5	2
30	Color Image Restoration with Fuzzy Gaussian Mixture Model Driven Nonlocal Filter. <i>Communications in Computer and Information Science</i> , 2015 , 137-145	0.3	1
29	Cell nuclei segmentation in glioma histopathology images with color decomposition based active contours 2015 ,		8
28	Vascularization features for polyp localization in capsule endoscopy 2015 ,		1
27	Weighted and well-balanced anisotropic diffusion scheme for image denoising and restoration. <i>Nonlinear Analysis: Real World Applications</i> , 2014 , 17, 33-46	2.1	25
26	Fast and globally convex multiphase active contours for brain MRI segmentation. <i>Computer Vision and Image Understanding</i> , 2014 , 125, 237-250	4.3	32
25	Elastic body spline based image segmentation 2014 ,		5
24	Automatic Contrast Parameter Estimation in Anisotropic Diffusion for Image Restoration. <i>Communications in Computer and Information Science</i> , 2014 , 198-206	0.3	1
23	Feature fusion and label propagation for textured object video segmentation 2014 ,		1
22	Multi-focus image fusion using epifluorescence microscopy for robust vascular segmentation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4735-8	0.9	10
21	Radar shadow detection in synthetic aperture radar images using digital elevation model and projections. <i>Journal of Applied Remote Sensing</i> , 2014 , 8, 1	1.4	12

20	On a System of Adaptive Coupled PDEs for Image Restoration. <i>Journal of Mathematical Imaging and Vision</i> , 2014 , 48, 35-52	1.6	17
19	Feature preserving anisotropic diffusion for image restoration 2013 ,		5
18	Robust periocular recognition by fusing local to holistic sparse representations 2013 ,		5
17	Multichannel texture image segmentation using local feature fitting based variational active contours 2012 ,		7
16	AN ADAPTIVE DIFFUSION SCHEME FOR IMAGE RESTORATION AND SELECTIVE SMOOTHING. <i>International Journal of Image and Graphics</i> , 2012 , 12, 1250003	0.5	14
15	Mucosal region detection and 3D reconstruction in wireless capsule endoscopy videos using active contours. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4014-7	0.9	9
14	FPGA implementation of OpenCV compatible background identification circuit 2012 , 97-102		1
13	A Segmentation Model and Application to Endoscopic Images. <i>Lecture Notes in Computer Science</i> , 2012 , 164-171	0.9	8
12	A well-posed multiscale regularization scheme for digital image denoising. <i>International Journal of Applied Mathematics and Computer Science</i> , 2011 , 21, 769-777	1.7	11
11	Automatic polyp detection in pillcam colon 2 capsule images and videos: preliminary feasibility report. <i>Diagnostic and Therapeutic Endoscopy</i> , 2011 , 2011, 182435	0	31
10	Weighted laplacian differences based multispectral anisotropic diffusion 2011 ,		3
9	Well-Posed Inhomogeneous Nonlinear Diffusion Scheme for Digital Image Denoising. <i>Journal of Applied Mathematics</i> , 2010 , 2010, 1-14	1.1	22
8	Multispectral image denoising by well-posed anisotropic diffusion scheme with channel coupling. <i>International Journal of Remote Sensing</i> , 2010 , 31, 2091-2099	3.1	20
7	A hybrid convex variational model for image restoration. <i>Applied Mathematics and Computation</i> , 2010 , 215, 3655-3664	2.7	24
6	Ring Artifact Reduction in Blind Image Deblurring and Denoising Problems by Regularization Methods 2009 ,		5
5	Color Image Segmentation Based on Vectorial Multiscale Diffusion with Inter-scale Linking. <i>Lecture Notes in Computer Science</i> , 2009 , 339-344	0.9	5
4	Controlled Inverse Diffusion Models for Image Restoration and Enhancement 2008 ,		3
3	Edge Detectors Based Anisotropic Diffusion for Enhancement of Digital Images 2008 ,		4

2	Dementia classification using MR imaging and clinical data with voting based machine learning models. <i>Multimedia Tools and Applications</i> ,1	2.5	1
1	LungMAP Portal Ecosystem: Systems-Level Exploration of the Lung		1