

V B Surya Prasath

List of Publications by Year in descending order

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Version: 2024-02-01

152
papers

2,655
citations

304602

22
h-index

254106

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163
all docs

163
docs citations

163
times ranked

2136
citing authors

#	ARTICLE	IF	CITATIONS
1	Choosing Mutation and Crossover Ratios for Genetic Algorithms – A Review with a New Dynamic Approach. Information (Switzerland), 2019, 10, 390.	1.7	294
2	Effects of Distance Measure Choice on K-Nearest Neighbor Classifier Performance: A Review. Big Data, 2019, 7, 221-248.	2.1	277
3	Methods on Skull Stripping of MRI Head Scan Images – a Review. Journal of Digital Imaging, 2016, 29, 365-379.	1.6	157
4	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.	1.6	80
5	In situ mapping identifies distinct vascular niches for myelopoiesis. Nature, 2021, 590, 457-462.	13.7	74
6	A Review on CT and X-Ray Images Denoising Methods. Informatica (Slovenia), 2019, 43, .	0.6	67
7	Multiscale Tikhonov-Total Variation Image Restoration Using Spatially Varying Edge Coherence Exponent. IEEE Transactions on Image Processing, 2015, 24, 5220-5235.	6.0	64
8	Polyp Detection and Segmentation from Video Capsule Endoscopy: A Review. Journal of Imaging, 2017, 3, 1.	1.7	56
9	DeepImmuno: deep learning-empowered prediction and generation of immunogenic peptides for T-cell immunity. Briefings in Bioinformatics, 2021, 22, .	3.2	48
10	An adaptive method for image restoration based on high-order total variation and inverse gradient. Signal, Image and Video Processing, 2020, 14, 1189-1197.	1.7	47
11	Adaptive total variation L1 regularization for salt and pepper image denoising. Optik, 2020, 208, 163677.	1.4	46
12	A Skin Lesion Segmentation Method for Dermoscopic Images Based on Adaptive Thresholding with Normalization of Color Models. , 2019, , .		43
13	Computational Nuclei Segmentation Methods in Digital Pathology: A Survey. Archives of Computational Methods in Engineering, 2021, 28, 1-13.	6.0	42
14	LISA: Lightweight context-aware IoT service architecture. Journal of Cleaner Production, 2019, 212, 1345-1356.	4.6	41
15	Fast and globally convex multiphase active contours for brain MRI segmentation. Computer Vision and Image Understanding, 2014, 125, 237-250.	3.0	40
16	Automatic disease stage classification of glioblastoma multiforme histopathological images using deep convolutional neural network. Biomedical Engineering Letters, 2018, 8, 321-327.	2.1	40
17	Automatic Polyp Detection in Pillcam Colon 2 Capsule Images and Videos: Preliminary Feasibility Report. Diagnostic and Therapeutic Endoscopy, 2011, 2011, 1-7.	1.5	34
18	An Improved Genetic Algorithm with a New Initialization Mechanism Based on Regression Techniques. Information (Switzerland), 2018, 9, 167.	1.7	34

#	ARTICLE	IF	CITATIONS
19	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, 0, XLII-2/W12, 211-218.	0.2	33
20	Weighted and well-balanced anisotropic diffusion scheme for image denoising and restoration. Nonlinear Analysis: Real World Applications, 2014, 17, 33-46.	0.9	30
21	Multiscale Structure Tensor for Improved Feature Extraction and Image Regularization. IEEE Transactions on Image Processing, 2019, 28, 6198-6210.	6.0	29
22	An adaptive image inpainting method based on the modified mumford-shah model and multiscale parameter estimation. Computer Optics, 2019, 43, .	1.3	29
23	A hybrid convex variational model for image restoration. Applied Mathematics and Computation, 2010, 215, 3655-3664.	1.4	28
24	Well-Posed Inhomogeneous Nonlinear Diffusion Scheme for Digital Image Denoising. Journal of Applied Mathematics, 2010, 2010, 1-14.	0.4	27
25	A two-stage filter for high density salt and pepper denoising. Multimedia Tools and Applications, 2020, 79, 21013-21035.	2.6	25
26	Structure tensor adaptive total variation for image restoration. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , 1147-1156.	0.9	24
27	On a System of Adaptive Coupled PDEs for Image Restoration. Journal of Mathematical Imaging and Vision, 2014, 48, 35-52.	0.8	23
28	Multispectral image denoising by well-posed anisotropic diffusion scheme with channel coupling. International Journal of Remote Sensing, 2010, 31, 2091-2099.	1.3	22
29	An adaptive image inpainting method based on euler's elastica with adaptive parameters estimation and the discrete gradient method. Signal Processing, 2021, 178, 107797.	2.1	22
30	Classification and gender recognition from veiled-faces. International Journal of Biometrics, 2017, 9, 347.	0.3	21
31	Magnetic energy-based feature extraction for low-quality fingerprint images. Signal, Image and Video Processing, 2018, 12, 1471-1478.	1.7	21
32	A Study on Nuclei Segmentation, Feature Extraction and Disease Stage Classification for Human Brain Histopathological Images. Procedia Computer Science, 2016, 96, 1202-1210.	1.2	20
33	Heterogeneous Multi-View Information Fusion: Review of 3-D Reconstruction Methods and a New Registration with Uncertainty Modeling. IEEE Access, 2016, 4, 8264-8285.	2.6	19
34	Adaptive Switching Weight Mean Filter for Salt and Pepper Image Denoising. Procedia Computer Science, 2020, 171, 292-301.	1.2	19
35	Single Image Dehazing Based on Adaptive Histogram Equalization and Linearization of Gamma Correction. , 2019, , .		18
36	A well-posed multiscale regularization scheme for digital image denoising. International Journal of Applied Mathematics and Computer Science, 2011, 21, 769-777.	1.5	17

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37	HEp-2 cell classification and segmentation using motif texture patterns and spatial features with random forests. , 2016, , .		17
38	Letter to the Editor: Brief history of transcranial direct current stimulation (tDCS): from electric fishes to microcontrollers. Psychological Medicine, 2016, 46, 3259-3261.	2.7	17
39	Random forests for dura mater microvasculature segmentation using epifluorescence images. , 2016, 2016, 2901-2904.		17
40	Evolution of Wireless Communications with 3G, 4G, 5G, and Next Generation Technologies in India. Lecture Notes in Electrical Engineering, 2021, , 355-359.	0.3	17
41	Image Restoration With Total Variation and Iterative Regularization Parameter Estimation. , 2017, , .		16
42	AN ADAPTIVE DIFFUSION SCHEME FOR IMAGE RESTORATION AND SELECTIVE SMOOTHING. International Journal of Image and Graphics, 2012, 12, 1250003.	1.2	15
43	Review of Computational Methods on Brain Symmetric and Asymmetric Analysis from Neuroimaging Techniques. Technologies, 2017, 5, 16.	3.0	15
44	Analysis of adaptive forward-backward diffusion flows with applications in image processing. Inverse Problems, 2015, 31, 105008.	1.0	14
45	Radar shadow detection in synthetic aperture radar images using digital elevation model and projections. Journal of Applied Remote Sensing, 2014, 8, 1.	0.6	13
46	A study on feature extraction and disease stage classification for Glioma pathology images. , 2016, , .		13
47	Victory sign biometrie for terrorists identification: Preliminary results. , 2017, , .		13
48	Image denoising by anisotropic diffusion with inter-scale information fusion. Pattern Recognition and Image Analysis, 2017, 27, 748-753.	0.6	13
49	Improving the generalization of disease stage classification with deep CNN for Glioma histopathological images. , 2017, , .		13
50	Microvasculature segmentation of arterioles using deep CNN. , 2017, , .		13
51	Total Variation L1 Fidelity Salt-and-Pepper Denoising with Adaptive Regularization Parameter. , 2018, , .		13
52	Regularization Parameter Selection in Image Restoration with Inverse Gradient: Single Scale or Multiscale?. , 2018, , .		13
53	On Selecting the Appropriate Scale in Image Selective Smoothing by Nonlinear Diffusion. , 2018, , .		13
54	Dementia classification using MR imaging and clinical data with voting based machine learning models. Multimedia Tools and Applications, 2022, 81, 25971-25992.	2.6	13

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55	Mucosal region detection and 3D reconstruction in wireless capsule endoscopy videos using active contours. , 2012, 2012, 4014-7.		12
56	Generation of fashionable clothes using generative adversarial networks. International Journal of Clothing Science and Technology, 2019, 32, 177-187.	0.5	12
57	Human Visual System Consistent Model for Wireless Capsule Endoscopy Image Enhancement and Applications. Pattern Recognition and Image Analysis, 2020, 30, 280-287.	0.6	12
58	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.	1.6	12
59	Skin lesion segmentation method for dermoscopic images with convolutional neural networks and semantic segmentation. Computer Optics, 2021, 45, .	1.3	12
60	Multi-focus image fusion using epifluorescence microscopy for robust vascular segmentation. , 2014, 2014, 4735-8.		11
61	An Improved BPDF Filter for High Density Salt and Pepper Denoising. , 2019, , .		11
62	Image Denoising with Overlapping Group Sparsity and Second Order Total Variation Regularization. , 2019, , .		11
63	Multiscale tensor anisotropic filtering of fluorescence microscopy for denoising microvasculature. , 2015, 2015, 540-543.		10
64	Cell nuclei segmentation in glioma histopathology images with color decomposition based active contours. , 2015, , .		10
65	Impulse denoising based on noise accumulation and harmonic analysis techniques. Optik, 2021, 241, 166163.	1.4	10
66	Quantum Noise Removal in X-Ray Images with Adaptive Total Variation Regularization. Informatica, 2017, 28, 505-515.	1.5	10
67	Color image processing by vectorial total variation with gradient channels coupling. Inverse Problems and Imaging, 2016, 10, 461-497.	0.6	10
68	Video haze removal and poisson blending based mini-mosaics for wide area motion imagery. , 2016, , .		9
69	A Probabilistic Fusion Framework for 3-D Reconstruction Using Heterogeneous Sensors. IEEE Sensors Journal, 2017, 17, 2640-2641.	2.4	9
70	Robust periocular recognition by fusing local to holistic sparse representations. , 2013, , .		8
71	Automatic segmentation of cerebral hemispheres in MR human head scans. International Journal of Imaging Systems and Technology, 2016, 26, 15-23.	2.7	8
72	Robust Periocular Recognition by Fusing Sparse Representations of Color and Geometry Information. Journal of Signal Processing Systems, 2016, 82, 403-417.	1.4	8

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73	Glioblastoma multiforme tissue histopathology images based disease stage classification with deep CNN. , 2017, , .		8
74	Systematic review and usability evaluation of writing mobile apps for children. New Review of Hypermedia and Multimedia, 2019, 25, 137-160.	0.9	8
75	Persian Classical Music Instrument Recognition (PCMIR) Using a Novel Persian Music Database. , 2019, , .		8
76	Multiscale Gradient Maps Augmented Fisher Information-Based Image Edge Detection. IEEE Access, 2020, 8, 141104-141110.	2.6	8
77	Recent developments in computational color image denoising with PDEs to deep learning: a review. Artificial Intelligence Review, 2021, 54, 6245-6276.	9.7	8
78	Computational 2D and 3D Medical Image Data Compression Models. Archives of Computational Methods in Engineering, 2022, 29, 975-1007.	6.0	8
79	A Segmentation Model and Application to Endoscopic Images. Lecture Notes in Computer Science, 2012, , 164-171.	1.0	8
80	Ringling Artifact Reduction in Blind Image Deblurring and Denoising Problems by Regularization Methods. , 2009, , .		7
81	Multichannel texture image segmentation using local feature fitting based variational active contours. , 2012, , .		7
82	Color Image Segmentation Based on Vectorial Multiscale Diffusion with Inter-scale Linking. Lecture Notes in Computer Science, 2009, , 339-344.	1.0	7
83	Weighted laplacian differences based multispectral anisotropic diffusion. , 2011, , .		6
84	Elastic body spline based image segmentation. , 2014, , .		6
85	Feature extraction and disease stage classification for Glioma histopathology images. , 2015, , .		6
86	Confocal vessel structure segmentation with optimized feature bank and random forests. , 2016, 2016, .		6
87	On convergent finite difference schemes for variationalâ€PDE-based image processing. Computational and Applied Mathematics, 2018, 37, 1562-1580.	1.3	6
88	On Computerizing the Ancient Game of á¹~Äb. International Journal of Gaming and Computer-Mediated Simulations, 2018, 10, 20-40.	0.9	6
89	New Features for Eye-Tracking Systems: Preliminary Results. , 2019, , .		6
90	OpinionMLâ€Opinion Markup Language for Sentiment Representation. Symmetry, 2019, 11, 545.	1.1	6

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91	A Fast Denoising Algorithm for X-Ray Images with Variance Stabilizing Transform. , 2019, , .		6
92	Optimal Nonlinear Signal Approximations Based on Piecewise Constant Functions. Circuits, Systems, and Signal Processing, 2020, 39, 2673-2694.	1.2	6
93	A systematic study on the role of SentiWordNet in opinion mining. Frontiers of Computer Science, 2021, 15, 1.	1.6	6
94	Edge Detectors Based Anisotropic Diffusion for Enhancement of Digital Images. , 2008, , .		5
95	Feature preserving anisotropic diffusion for image restoration. , 2013, , .		5
96	Image Restoration with Fuzzy Coefficient Driven Anisotropic Diffusion. Lecture Notes in Computer Science, 2015, , 145-155.	1.0	5
97	Multiquadric spline-based interactive segmentation of vascular networks. , 2016, 2016, 5913-5916.		5
98	SentiML ++: an extension of the SentiML sentiment annotation scheme. New Review of Hypermedia and Multimedia, 2018, 24, 28-43.	0.9	5
99	An Algorithm for Data Hiding in Radiographic Images and ePHI/R Application. Technologies, 2018, 6, 7.	3.0	5
100	Ensemble Learning for Data-Driven Diagnosis of Polycystic Ovary Syndrome. Lecture Notes in Networks and Systems, 2022, , 1250-1259.	0.5	5
101	On Optimal Multi-Sensor Network Configuration for 3D Registration. Journal of Sensor and Actuator Networks, 2015, 4, 293-314.	2.3	4
102	Mixed Noise Removal Using Hybrid Fourth Order Mean Curvature Motion. Advances in Intelligent Systems and Computing, 2016, , 625-632.	0.5	4
103	Distorted Image Reconstruction Method with Trimmed Median. , 2019, , .		4
104	Image Inpainting Method Based on Mixed Median. , 2019, , .		4
105	Adaptive Thresholding Skin Lesion Segmentation with Gabor Filters and Principal Component Analysis. Advances in Intelligent Systems and Computing, 2020, , 811-820.	0.5	4
106	On a hybrid lossless compression technique for three-dimensional medical images. Journal of Applied Clinical Medical Physics, 2021, 22, 191-203.	0.8	4
107	Machine Learning for Detection of Correct Peripherally Inserted Central Catheter Tip Position from Radiology Reports in Infants. Applied Clinical Informatics, 2021, 12, 856-863.	0.8	4
108	Deep learning based computer-aided diagnosis for neuroimaging data: focused review and future potential. Neuroimmunology and Neuroinflammation, 2018, 5, 1.	1.4	4

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109	Measuring Bone Density Connectivity Using Dual Energy X-Ray Absorptiometry Images. International Journal of Fuzzy Logic and Intelligent Systems, 2017, 17, 235-244.	0.6	4
110	Location Verification Technique for Cluster Based Geographical Routing in MANET. Informatica, 2020, , 113-130.	1.5	4
111	Controlled Inverse Diffusion Models for Image Restoration and Enhancement. , 2008, , .		3
112	Automatic Contrast Enhancement for Wireless Capsule Endoscopy Videos with Spectral Optimal Contrast-Tone Mapping. Smart Innovation, Systems and Technologies, 2015, , 243-250.	0.5	3
113	Automatic Image Segmentation for Video Capsule Endoscopy. SpringerBriefs in Applied Sciences and Technology, 2015, , 73-80.	0.2	3
114	Assisted ground truth generation using interactive segmentation on a visualization and annotation tool. , 2016, , .		3
115	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.	0.6	3
116	Brain tissue volume estimation to detect Alzheimer's disease in magnetic resonance images. Soft Computing, 2021, 25, 10007-10017.	2.1	3
117	POCASUM: policy categorizer and summarizer based on text mining and machine learning. Soft Computing, 2021, 25, 9365-9375.	2.1	3
118	Development of a Web Based Image Annotation Tool for Lung Immunofluorescent Confocal Images. International Symposium on Affective Science and Engineering, 2018, ISASE2018, 1-5.	0.1	3
119	Vascularization features for polyp localization in capsule endoscopy. , 2015, , .		2
120	Csang: continuous scale anisotropic Gaussians for robust linear structure extraction. , 2016, , .		2
121	Automatic Mucosa Detection in Video Capsule Endoscopy with Adaptive Thresholding. Advances in Intelligent Systems and Computing, 2016, , 95-102.	0.5	2
122	Adaptive Nonlocal Filtering for Brain MRI Restoration. Advances in Intelligent Systems and Computing, 2016, , 571-580.	0.5	2
123	On Video Based Human Abnormal Activity Detection with Histogram of Oriented Gradients. , 2019, , 431-448.		2
124	Automatic body mass index detection using correlation of face visual cues. Technology and Health Care, 2020, 28, 107-112.	0.5	2
125	Single Image Dehazing with Optimal Color Channels and Nonlinear Transformation. , 2021, , .		2
126	Multiregion Multiscale Image Segmentation with Anisotropic Diffusion. Lecture Notes in Computer Science, 2021, , 129-140.	1.0	2

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127	FPGA implementation of OpenCV compatible background identification circuit. , 2012, , 97-102.		2
128	Automatic Contrast Parameter Estimation in Anisotropic Diffusion for Image Restoration. Communications in Computer and Information Science, 2014, , 198-206.	0.4	1
129	Feature fusion and label propagation for textured object video segmentation. , 2014, , .		1
130	Color Image Restoration with Fuzzy Gaussian Mixture Model Driven Nonlocal Filter. Communications in Computer and Information Science, 2015, , 137-145.	0.4	1
131	Glioma Subtypes Clustering Method using Histopathological Image Analysis. , 2018, , .		1
132	Multi-Class Segmentation of Lung Immunofluorescence Confocal Images Using Deep Learning. , 2019, , .		1
133	Adaptive Texts Deconvolution Method for Real Natural Images. , 2019, , .		1
134	Compression artifacts reduction with multiscale tensor regularization. Multidimensional Systems and Signal Processing, 2021, 32, 521-531.	1.7	1
135	On Numerical Implementation of the Laplace Equation-Based Image Inpainting. IOP Conference Series: Materials Science and Engineering, 0, 1022, 012034.	0.3	1
136	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.	0.5	1
137	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.	0.1	1
138	Image Inpainting with Modified F-Transform. Lecture Notes in Computer Science, 2015, , 856-867.	1.0	0
139	App Review Series: Radiology Pocket Game. Journal of Digital Imaging, 2017, 30, 127-129.	1.6	0
140	3D workflow for segmentation and interactive visualization in brain MR images using multiphase active contours. , 2017, , .		0
141	Near-light perspective shape from shading for 3D visualizations in endoscopy systems. , 2017, , .		0
142	BREAK, MAKE and TAKE: an information retrieval approach. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	0.8	0
143	An Image Inpainting Method Based on Adaptive Fuzzy Switching Median. , 2019, , .		0
144	Video denoising with adaptive temporal averaging. Engineering Review, 2019, 39, 243-247.	0.2	0

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145	Improving sellerâ€™customer communication process using word embeddings. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 2257-2272.	3.3	0
146	Comparison of Various Machine Learning Models to Identify Peripherally Inserted Central Catheter (PICC) Tip Position from Radiology Reports. , 2021, , .		0
147	Design of a Novel Servo-motorized Laser Device for Visual Pathways Diseases Therapies Based on Neuroplasticity. Ciencias Huasteca BoletÃn CientÃfico De La Escuela Superior De Huejutla, 2014, 2, .	0.1	0
148	Enhanced Multi-View Point Non-Negative Matrix Factorization Clustering for Clinical Documents Analysis. Biomedical and Pharmacology Journal, 2017, 10, 2135-2143.	0.2	0
149	Design and Construction of a Light-Detecting and Obstacle-Sensing Robot for IoTâ€™Preliminary Feasibility Study. , 2019, , 59-79.		0
150	Second order monotone difference schemes with approximation on non-uniform grids for two-dimensional quasilinear parabolic convection-diffusion equations. St Petersburg University Vestnik Mathematics, 2020, 7 (65), 343-355.	0.1	0
151	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	0
152	Dynamic Increased Capacity Approach Steganography in Spatial Domain. Traitement Du Signal, 2020, 37, 671-678.	0.8	0