Varun P Gopi

List of Publications by Year
in descending order

		623734	526287
72 papers	976 citations	14 h-index	27 g-index
72 all docs	72 docs citations	72 times ranked	639 citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive enhancement and fovea detection technique for color fundus image analysis. Signal, Image and Video Processing, 2023, 17, 831-838.	2.7	1
2	Redundancy reduced depthwise separable convolution for glaucoma classification using OCT images. Biomedical Signal Processing and Control, 2022, 71, 103192.	5.7	20
3	Automated colorectal polyp detection based on image enhancement and dual-path CNN architecture. Biomedical Signal Processing and Control, 2022, 73, 103465.	5.7	22
4	MULTI-SCALE DIRECTED ACYCLIC GRAPH-CNN FOR AUTOMATED CLASSIFICATION OF DIABETIC RETINOPATHY FROM OCT IMAGES. Biomedical Engineering - Applications, Basis and Communications, 2022, 34, .	0.6	1
5	Ground-based 4d trajectory prediction using bi-directional LSTM networks. Applied Intelligence, 2022, 52, 16417-16434.	5.3	6
6	Despeckling of OCT images using DT-CWT based fusion technique. Optik, 2022, 263, 169332.	2.9	3
7	FunNet: a deep learning network for the detection of age-related macular degeneration. , 2022, , 157-172.		1
8	RepAr-Net: Re-Parameterized Encoders and Attentive Feature Arsenals for Fast Video Denoising. , 2022, , .		1
9	OctNET: A Lightweight CNN for Retinal Disease Classification from Optical Coherence Tomography Images. Computer Methods and Programs in Biomedicine, 2021, 200, 105877.	4.7	54
10	RPE layer detection and baseline estimation using statistical methods and randomization for classification of AMD from retinal OCT. Computer Methods and Programs in Biomedicine, 2021, 200, 105822.	4.7	17
11	A Neural Network Based Optic Disc Segmentation. , 2021, , .		0
12	Multi-class Classification of Alzheimer's Disease using 3DCNN Features and Multilayer Perceptron. , 2021, , .		7
13	Automated Detection of Age-Related Macular Degeneration from OCT Images Using Multipath CNN. Journal of Computing Science and Engineering, 2021, 15, 34-46.	0.6	10
14	Facial Expression Recognition through person-wise regeneration of expressions using Auxiliary Classifier Generative Adversarial Network (AC-GAN) based model. Journal of Visual Communication and Image Representation, 2021, 77, 103110.	2.8	12
15	Diabetic retinopathy classification based on multipath CNN and machine learning classifiers. Physical and Engineering Sciences in Medicine, 2021, 44, 639-653.	2.4	42
16	A novel multiscale convolutional neural network based age-related macular degeneration detection using OCT images. Biomedical Signal Processing and Control, 2021, 67, 102538.	5.7	33
17	DETECTION OF AGE-RELATED MACULAR DEGENERATION FROM OCT IMAGES USING DOUBLE SCALE CNN ARCHITECTURE. Biomedical Engineering - Applications, Basis and Communications, 2021, 33, 2150029.	0.6	1
18	A novel multiscale and multipath convolutional neural network based age-related macular degeneration detection using OCT images. Computer Methods and Programs in Biomedicine, 2021, 209, 106294.	4.7	22

#	Article	IF	Citations
19	Breast Ultrasound Image Processing. Advances in Computational Intelligence and Robotics Book Series, 2021, , 44-69.	0.4	1
20	Fast approach for moving vehicle localization and bounding box estimation in highway traffic videos. Signal, Image and Video Processing, 2021, 15, 1041-1048.	2.7	4
21	Inception single shot multi-box detector with affinity propagation clustering and their application in multi-class vehicle counting. Applied Intelligence, 2021, 51, 4714-4729.	5.3	7
22	Pixel matching search algorithm for counting moving vehicle in highway traffic videos. Multimedia Tools and Applications, 2021, 80, 3153-3172.	3.9	6
23	A Dual-Path CNN Based Age-Related Macular Degeneration Detection. , 2021, , .		1
24	A machine learning-based approach to predict random variation in the landing time of scheduled flights. International Journal of Sustainable Aviation, 2021, 7, 293.	0.2	1
25	Automated classification of diabetic retinopathy through reliable feature selection. Physical and Engineering Sciences in Medicine, 2020, 43, 927-945.	2.4	30
26	A lightweight CNN for Diabetic Retinopathy classification from fundus images. Biomedical Signal Processing and Control, 2020, 62, 102115.	5.7	96
27	Moving Vehicle Candidate Recognition and Classification Using Inception-ResNet-v2. , 2020, , .		12
28	Multi-class diagnosis of Alzheimer's disease using cascaded three dimensional-convolutional neural network. Physical and Engineering Sciences in Medicine, 2020, 43, 1219-1228.	2.4	38
29	Automated segmentation of optic disc using statistical region merging and morphological operations. Physical and Engineering Sciences in Medicine, 2020, 43, 857-869.	2.4	8
30	Automated Binary and Multiclass Classification of Diabetic Retinopathy Using Haralick and Multiresolution Features. IEEE Access, 2020, 8, 57497-57504.	4.2	56
31	A hybrid feature preservation technique based on luminosity and edge based contrast enhancement in color fundus images. Biocybernetics and Biomedical Engineering, 2020, 40, 752-763.	5.9	23
32	Dorsal Hand Vein Biometric Recognition Based on Orientation of Local Binary Pattern. , 2020, , .		2
33	Brain MR kurtosis imaging study: Contrasting gray and white matter. Cognitive Systems Research, 2019, 55, 135-145.	2.7	6
34	An Automated method of Optic Disc Detection from Retinal Fundus Images. , 2019, , .		5
35	Accurate Heart Rate Monitoring Method During Physical Exercise From Photoplethysmography Signal. IEEE Sensors Journal, 2019, 19, 2298-2304.	4.7	4
36	An improved luminosity and contrast enhancement framework for feature preservation in color fundus images. Signal, Image and Video Processing, 2019, 13, 719-726.	2.7	31

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37	Combination of clinical and multiresolution features for glaucoma detection and its classification using fundus images. Biocybernetics and Biomedical Engineering, 2018, 38, 329-341.	5.9	62
38	An Adaptive Enhancement method for Low Contrast Color Retinal Images based on Strucural Similarity. , 2018, , .		4
39	Development of an efficient algorithm for the detection of macular edema from optical coherence tomography images. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 1369-1377.	2.8	17
40	Analog CMOS implementation of FFT using cascode current mirror. Microelectronics Journal, 2017, 60, 30-37.	2.0	3
41	PCA-based localization approach for segmentation of optic disc. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 2195-2204.	2.8	12
42	Vehicle Vibration Signal Processing for Road Surface Monitoring. IEEE Sensors Journal, 2017, 17, 5192-5197.	4.7	119
43	Identification of ayurvedic medicinal plants by image processing of leaf samples. , 2017, , .		26
44	A sparsity-based iterative algorithm for reconstruction of micro-CT images from highly undersampled projection datasets obtained with a synchrotron X-ray source. Review of Scientific Instruments, 2016, 87, 123701.	1.3	4
45	Undecimated Complex Wavelet Transform based bleeding detection for endoscopic images. , 2016, , .		1
46	Low-complexity CFO compensation technique for uplink OFDMA. , 2016, , .		1
47	Iterative Computed Tomography Reconstruction from Sparse-View Data. Journal of Medical Imaging and Health Informatics, 2016, 6, 34-46.	0.3	6
48	A novel method for bleeding detection in Wireless Capsule Endoscopic images. , 2015, , .		9
49	Transform based bleeding detection technique for endoscopic images. , 2015, , .		23
50	Colon cancer detection based on structural and statistical pattern recognition. , 2015, , .		14
51	A new method for ulcer detection in endoscopic images. , 2015, , .		10
52	Regularization based CT image reconstruction using Algebraic techniques. , 2014, , .		3
53	Estimation of shielding effectiveness of perforated rectangular enclosure using transmission line method for normal incidence and angle of incidence. , 2014, , .		4
54	MR image reconstruction based on framelets and nonlocal total variation using split Bregman method. International Journal of Computer Assisted Radiology and Surgery, 2014, 9, 459-472.	2.8	6

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55	A novel wavelet based denoising algorithm using level dependent thresholding. , 2014, , .		4
56	Undecimated double density dual tree wavelet transform based image denoising using a subband adaptive threshold. , 2014, , .		4
57	Image security using DES and RNS with reversible watermarking. , 2014, , .		8
58	Multiple regularization based MRI reconstruction. Signal Processing, 2014, 103, 103-113.	3.7	11
59	Iterative method for CT image reconstruction from reduced number of projection views. , 2013, , .		2
60	CT image reconstruction based on combination of iterative reconstruction technique and total variation. , 2013, , .		1
61	An efficient shielding effectiveness analysis of rectangular box perforated with numerous apertures by transmission line model. , 2013, , .		5
62	Image Denoising Based on Undecimated Double Density Dual Tree Wavelet Transform and Modified Firm Shrinkage. , 2013, , .		3
63	Micro-CT image reconstruction based on alternating direction augmented Lagrangian method and total variation. Computerized Medical Imaging and Graphics, 2013, 37, 419-429.	5.8	3
64	MR Image Reconstruction Based on Iterative Split Bregman Algorithm and Nonlocal Total Variation. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-16.	1.3	9
65	Capsule Endoscopic Colour Image Denoising Using Complex Wavelet Transform. Communications in Computer and Information Science, 2012, , 220-229.	0.5	10
66	Endoscopic image compression based on Double Density Discrete Wavelet Transform and SPIHT coding. , 2011, , .		1
67	Scaling issues in IDDG FinFET at small gate length. , 2010, , .		0
68	AN AUTOMATED METHOD TO DETECT AGE-RELATED MACULAR DEGENERATION FROM OPTICAL COHERENCE TOMOGRAPHIC IMAGES. Biomedical Engineering - Applications, Basis and Communications, 0, , 2150036.	0.6	2
69	Prediction of Gate In Time of Scheduled Flights and Schedule Conformance using Machine Learning-based Algorithms. International Journal of Aviation, Aeronautics, and Aerospace, 0, , .	0.2	1
70	CLASSIFICATION OF INFORMATIVE FRAMES IN COLONOSCOPY VIDEO BASED ON IMAGE ENHANCEMENT AND PHOG FEATURE EXTRACTION. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	1
71	COLORECTAL POLYP DETECTION USING IMAGE ENHANCEMENT AND SCALED YOLOv4 ALGORITHM. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	2
72	CLASSIFICATION OF AGE-RELATED MACULAR DEGENERATION USING DAG-CNN ARCHITECTURE. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	1