Bikesh Kumar Singh

List of Publications by Year
in descending order

54	965	566801 15	476904 29
papers	citations	h-index	g-index

56	56	56	975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coronavirus disease (COVID-19) detection in Chest X-Ray images using majority voting based classifier ensemble. Expert Systems With Applications, 2021, 165, 113909.	4.4	201
2	Plaque Tissue Morphology-Based Stroke Risk Stratification Using Carotid Ultrasound: A Polling-Based PCA Learning Paradigm. Journal of Medical Systems, 2017, 41, 98.	2.2	61
3	Automatic detection of tuberculosis related abnormalities in Chest X-ray images using hierarchical feature extraction scheme. Expert Systems With Applications, 2020, 158, 113514.	4.4	58
4	Determining relevant biomarkers for prediction of breast cancer using anthropometric and clinical features: A comparative investigation in machine learning paradigm. Biocybernetics and Biomedical Engineering, 2019, 39, 393-409.	3.3	55
5	Fuzzy cluster based neural network classifier for classifying breast tumors in ultrasound images. Expert Systems With Applications, 2016, 66, 114-123.	4.4	50
6	Ultrasound image segmentation using a novel multi-scale Gaussian kernel fuzzy clustering and multi-scale vector field convolution. Expert Systems With Applications, 2019, 115, 486-498.	4.4	50
7	An Enhancement in Adaptive Median Filter for Edge Preservation. Procedia Computer Science, 2015, 48, 29-36.	1.2	47
8	Respiratory Sound Based Classification of Chronic Obstructive Pulmonary Disease: a Risk Stratification Approach in Machine Learning Paradigm. Journal of Medical Systems, 2019, 43, 255.	2.2	42
9	Adaptive Gradient Descent Backpropagation for Classification of Breast Tumors in Ultrasound Imaging. Procedia Computer Science, 2015, 46, 1601-1609.	1.2	41
10	Detection of type-2 diabetes using characteristics of toe photoplethysmogram by applying support vector machine. Biocybernetics and Biomedical Engineering, 2019, 39, 38-51.	3.3	40
11	Integrating radiologist feedback with computer aided diagnostic systems for breast cancer risk prediction in ultrasonic images: An experimental investigation in machine learning paradigm. Expert Systems With Applications, 2017, 90, 209-223.	4.4	31
12	Risk stratification of 2D ultrasound-based breast lesions using hybrid feature selection in machine learning paradigm. Measurement: Journal of the International Measurement Confederation, 2017, 105, 146-157.	2.5	30
13	Artificial intelligence-based classification of schizophrenia: A high density electroencephalographic and support vector machine study. Indian Journal of Psychiatry, 2020, 62, 273.	0.4	26
14	Enhanced cryopreservation of MSCs in microfluidic bioreactor by regulated shear flow. Scientific Reports, 2016, 6, 35416.	1.6	25
15	Soft voting technique to improve the performance of global filter based feature selection in text corpus. Applied Intelligence, 2019, 49, 1597-1619.	3.3	16
16	Hybrid segmentation method based on multiâ€scale Gaussian kernel fuzzy clustering with spatial bias correction and regionâ€scalable fitting for breast US images. IET Computer Vision, 2018, 12, 1067-1077.	1.3	15
17	One-dimensional convolutional neural network and hybrid deep-learning paradigm for classification of specific language impaired children using their speech. Computer Methods and Programs in Biomedicine, 2022, 213, 106487.	2.6	15
18	Objective and Optical Evaluation of Despeckle Filters in Breast Ultrasound Images. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2015, 32, 384-398.	2.1	14

#	Article	IF	Citations
19	Disease Localization and Severity Assessment in Chest X-Ray Images using Multi-Stage Superpixels Classification. Computer Methods and Programs in Biomedicine, 2022, 222, 106947.	2.6	13
20	Comparative analysis of Lung sound denoising technique. , 2020, , .		12
21	Breast Cancer Prediction Using Dominance-based Feature Filtering Approach: A Comparative Investigation in Machine Learning Archetype. Brazilian Archives of Biology and Technology, 0, 62, .	0.5	8
22	Segmentation of Brain Lesions in MRI and CT Scan Images: A Hybrid Approach Using k-Means Clustering and Image Morphology. Journal of the Institution of Engineers (India): Series B, 2018, 99, 173-180.	1.3	7
23	Performance evaluation of breast lesion detection systems with expert delineations: a comparative investigation on mammographic images. Multimedia Tools and Applications, 2019, 78, 22421-22444.	2.6	7
24	Segmentation of Brain Tumour Based on Clustering Technique: Performance Analysis. Journal of Intelligent Systems, 2019, 28, 291-306.	1.2	7
25	Prediction of Specific Language Impairment in Children Using Speech Linear Predictive Coding Coefficients. , 2020, , .		7
26	Improved pulmonary lung nodules risk stratification in computed tomography images by fusing shape and texture features in a machineâ€learning paradigm. International Journal of Imaging Systems and Technology, 2021, 31, 1503-1518.	2.7	7
27	Review of Feature Selection Algorithms for Breast Cancer Ultrasound Image. Studies in Computational Intelligence, 2015, , 23-32.	0.7	6
28	Use of Prosocial Word Enhances the Processing of Language: Frequency Domain Analysis of Human EEG. Journal of Psycholinguistic Research, 2019, 48, 145-161.	0.7	6
29	Segmentation of malignant tumours in mammogram images: A hybrid approach using convolutional neural networks and connected component analysis. Expert Systems, 2022, 39, e12826.	2.9	6
30	<scp>Realâ€time</scp> automated segmentation of breast lesions using <scp>CNNâ€based</scp> deep learning paradigm: Investigation on mammogram and ultrasound. International Journal of Imaging Systems and Technology, 2022, 32, 1084-1100.	2.7	6
31	An enhancement in automatic seed selection in breast cancer ultrasound images using texture features. , 2016, , .		5
32	Evaluation of Image Features Within and Surrounding Lesion Region for Risk Stratification in Breast Ultrasound Images. IETE Journal of Research, 2022, 68, 935-946.	1.8	5
33	Integrating patient symptoms, clinical readings, and radiologist feedback with computer-aided diagnosis system for detection of infectious pulmonary disease: a feasibility study. Medical and Biological Engineering and Computing, 2022, 60, 2549-2565.	1.6	5
34	Investigations on edge preservation and smoothening of frequency domain filters for speckle removal in breast ultrasound images. International Journal of Biomedical Engineering and Technology, 2016, 20, 97.	0.2	4
35	Classification of Children with Specific Language Impairment Using Pitch-Based Parameters. , 2020, , .		4
36	Improving the classification performance of breast ultrasound image using deep learning and optimization algorithm. , 2021, , .		4

#	Article	IF	Citations
37	Non-invasive technique of diabetes detection using iris images. International Journal of Computational Vision and Robotics, 2019, 9, 351.	0.2	3
38	Hiding Patient Information in Medical Images: A Robust Watermarking Algorithm for Healthcare System. Lecture Notes in Bioengineering, 2021, , 245-261.	0.3	3
39	EEG based functional brain networks analysis in dyslexic children during arithmetic task. Cognitive Neurodynamics, 2022, 16, 1013-1028.	2.3	3
40	Effect of Yoga on Hemodynamic Changes at Prefrontal cortex during Sustained Attention Task. , 2019, , .		2
41	Breast cancer detection and validation using dual modality imaging. , 2020, , .		2
42	Indexing and Retrieval of Medical Images Using CBIR Approach. Communications in Computer and Information Science, 2011, , 393-403.	0.4	2
43	Feature Selection for Classification of Breast Cancer in Histopathology Images: A Comparative Investigation Using Wavelet-Based Color Features. Lecture Notes in Bioengineering, 2021, , 367-377.	0.3	2
44	Wavelet based information for retrieval and classification of mammographic images. , 2011, , .		1
45	Performance evaluation of automated brain tumor detection systems with expert delineations and interobserver variability analysis in diseased patients on magnetic resonance imaging. Applied Artificial Intelligence, 2018, 32, 670-691.	2.0	1
46	Resting state EEG signal analysis in Indian Dyslexic children. , 2020, , .		1
47	Applications of Machine Learning Techniques in Disease Classification From Medical Images. Advances in Medical Technologies and Clinical Practice Book Series, 2018, , 318-337.	0.3	1
48	An Overview and Comparative Study of Segmentation Techniques for Extraction of Tongue Region for Computerized Tongue Diagnosis. Communications in Computer and Information Science, 2011, , 473-483.	0.4	1
49	Electroencephalography-based classification of human emotion: a hybrid strategy in machine learning paradigm. International Journal of Computational Vision and Robotics, 2019, 9, 583.	0.2	1
50	Prediction of Hydroxyurea Effect on Sickle Cell Anemia Patients Using Machine Learning Method. Lecture Notes in Bioengineering, 2021, , 447-457.	0.3	1
51	Retrieval of changes in moving objects in multiple and color images. , 2011, , .		0
52	Investigation of Quantitative Electroencephalography Markers for Schizophrenia Diagnosis using Variational Mode decomposition. , 2021, , .		0
53	Regression-Based Approach to Analyze Tropical Cyclone Genesis. Lecture Notes in Networks and Systems, 2019, , 77-87.	0.5	0
54	Performance Evaluation of Spectrogram Based Epilepsy Detection Techniques Using Gray Scale Features. Journal of Ravishankar University, 2020, 33, 01-07.	0.1	0