Savita Gupta

List of Publications by Year
in descending order

71 papers	1,108 citations	567144 15 h-index	454834 30 g-index
72 all docs	72 docs citations	72 times ranked	1171 citing authors

#	Article	IF	Citations
1	Wavelet-based statistical approach for speckle reduction in medical ultrasound images. Medical and Biological Engineering and Computing, 2004, 42, 189-192.	1.6	174
2	A Review on Ultrasound-Based Thyroid Cancer Tissue Characterization and Automated Classification. Technology in Cancer Research and Treatment, 2014, 13, 289-301.	0.8	85
3	Computer aided thyroid nodule detection system using medical ultrasound images. Biomedical Signal Processing and Control, 2018, 40, 117-130.	3.5	80
4	An information fusion based method for liver classification using texture analysis of ultrasound images. Information Fusion, 2014, 19, 91-96.	11.7	72
5	Automated delineation of thyroid nodules in ultrasound images using spatial neutrosophic clustering and level set. Applied Soft Computing Journal, 2016, 40, 86-97.	4.1	52
6	A novel feature selection method for brain tumor MR image classification based on the Fisher criterion and parameter-free Bat optimization. Neural Computing and Applications, 2018, 29, 193-206.	3.2	37
7	A survey on fault tolerance techniques in Wireless Sensor Networks. , 2015, , .		36
8	Effect of complex wavelet transform filter on thyroid tumor classification in three-dimensional ultrasound. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 284-292.	1.0	34
9	Robust non-homomorphic approach for speckle reduction in medical ultrasound images. Medical and Biological Engineering and Computing, 2005, 43, 189-195.	1.6	33
10	Homomorphic wavelet thresholding technique for denoising medical ultrasound images. Journal of Medical Engineering and Technology, 2005, 29, 208-214.	0.8	30
11	Quantitative metric for MR brain tumour grade classification using sample space density measure of analytic intrinsic mode function representation. IET Image Processing, 2017, 11, 620-632.	1.4	26
12	Speckle reduction method for thyroid ultrasound images in neutrosophic domain. IET Image Processing, 2016, 10, 167-175.	1.4	25
13	An adaptive fuzzy K-nearest neighbor approach for MR brain tumor image classification using parameter free bat optimization algorithm. Multimedia Tools and Applications, 2019, 78, 21853-21890.	2.6	25
14	An optimal spectroscopic feature fusion strategy for MR brain tumor classification using Fisher Criteria and Parameter-Free BAT optimization algorithm. Biocybernetics and Biomedical Engineering, 2018, 38, 409-424.	3.3	23
15	Region Based Adaptive Contrast Enhancement of Medical X-Ray Images. , 2011, , .		22
16	Full reference image quality metrics for JPEG compressed images. AEU - International Journal of Electronics and Communications, 2015, 69, 604-608.	1.7	17
17	Segmentation of prostate contours for automated diagnosis using ultrasound images: A survey. Journal of Computational Science, 2017, 21, 223-231.	1.5	17
18	Comparative Analysis of Image Compression Techniques: A Case Study on Medical Images. , 2009, , .		16

#	Article	IF	Citations
19	Visible Light Communication-an emerging wireless communication technology. , 2015, , .		15
20	Neutrosophic Based Nakagami Total Variation Method for Speckle Suppression in Thyroid Ultrasound Images. Irbm, 2018, 39, 43-53.	3.7	15
21	An Obstacle Detection Method for Visually Impaired Persons by Ground Plane Removal Using Speeded-Up Robust Features and Gray Level Co-Occurrence Matrix. Pattern Recognition and Image Analysis, 2018, 28, 288-300.	0.6	15
22	A Passive Blind Approach for Image Splicing Detection Based on DWT and LBP Histograms. Communications in Computer and Information Science, 2016, , 318-327.	0.4	13
23	A novel fully automatic multilevel thresholding technique based on optimized intuitionistic fuzzy sets and tsallis entropy for MR brain tumor image segmentation. Australasian Physical and Engineering Sciences in Medicine, 2018, 41, 41-58.	1.4	13
24	Segmentation based image compression of brain magnetic resonance images using visual saliency. Biomedical Signal Processing and Control, 2020, 62, 102089.	3.5	13
25	Plant leaf imaging technique for agronomy. , 2011, , .		12
26	A hybrid framework for registration of carotid ultrasound images combining iconic and geometric features. Medical and Biological Engineering and Computing, 2013, 51, 1043-1050.	1.6	12
27	Optimized Multi Threshold Brain Tumor Image Segmentation Using Two Dimensional Minimum Cross Entropy Based on Co-occurrence Matrix. Studies in Computational Intelligence, 2016, , 461-486.	0.7	12
28	Automatic segmentation of tumors in B-Mode breast ultrasound images using information gain based neutrosophic clustering. Journal of X-Ray Science and Technology, 2018, 26, 209-225.	0.7	12
29	A joint intensity and edge magnitude-based multilevel thresholding algorithm for the automatic segmentation of pathological MR brain images. Neural Computing and Applications, 2018, 30, 1317-1340.	3.2	12
30	An Efficient Human Identification Through Iris Recognition System. Journal of Signal Processing Systems, 2021, 93, 701-708.	1.4	12
31	Biomedical Image Indexing and Retrieval Descriptors: A Comparative Study. Procedia Computer Science, 2016, 85, 954-961.	1.2	10
32	Nakagami-based total variation method for speckle reduction in thyroid ultrasound images. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 97-110.	1.0	10
33	A new measure of echogenicity of ultrasound images for liver classification. , 2011, , .		9
34	A fusion framework based on fuzzy integrals for passive-blind image tamper detection. Cluster Computing, 2019, 22, 11363-11378.	3.5	9
35	Survey of Computer-Aided Diagnosis of Thyroid Nodules in Medical Ultrasound Images. Advances in Intelligent Systems and Computing, 2013, , 459-467.	0.5	9
36	An automatic ROI extraction technique for Thyroid Ultrasound image. , 2015, , .		7

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37	Multimodal biometric system based on decision level fusion. , 2016, , .		7
38	Intuitionistic Fuzzy Domain Level Set Method for Automatic Delineation of Juxta-pleural Pulmonary Nodules in Thoracic CT Images. Current Medical Imaging, 2018, 14, 280-288.	0.4	7
39	Machine Learning based Indoor Localization Techniques for Wireless Sensor Networks. , 2020, , .		7
40	Performance comparison of image segmentation techniques for lung nodule detection in CT images. , 2015, , .		6
41	Objective color image quality assessment based on Sobel magnitude. Signal, Image and Video Processing, 2017, 11, 123-128.	1.7	6
42	Modified spatial neutrosophic clustering technique for boundary extraction of tumours in Bâ€mode BUS images. IET Image Processing, 2018, 12, 1338-1344.	1.4	6
43	A QoS Aware Resource Placement Approach Inspired on the Behavior of the Social Spider Mating Strategy in the Cloud Environment. Wireless Personal Communications, 2020, 113, 2027-2065.	1.8	6
44	Technology and research developments in carotid image registration. Biomedical Signal Processing and Control, 2012, 7, 560-570.	3.5	4
45	An adaptive hybrid technique for pancreas segmentation using CT image sequences. , 2015, , .		4
46	Region Based Adaptive Contrast Enhancement of Medical Ultrasound Images. , 2015, , .		4
47	Analysis of Resource Management and placement policies using a new nature inspired meta heuristic SSCWA avoiding premature convergence in Cloud. , 2016, , .		4
48	Social spider foraging-based optimal resource management approach for future cloud. Journal of Supercomputing, 2020, 76, 1880-1902.	2.4	4
49	QoS Aware Social Spider Cloud Web Algorithm: Analysis of Resource Placement Approach. SSRN Electronic Journal, 0, , .	0.4	4
50	Investigations on ROI selection for liver classification. , 2014, , .		3
51	Content Based Medical Image Coding with Fuzzy Level Set Segmentation Algorithm. Lecture Notes in Electrical Engineering, 2013, , 161-171.	0.3	3
52	Weighted Variance Based Scale Adaptive Threshold for Despeckling of Medical Ultrasound Images Using Curvelets. Journal of Medical Imaging and Health Informatics, 2015, 5, 272-281.	0.2	2
53	A technique for face verification across age progression with large age gap. , 2017, , .		2
54	Optimization Techniques for the Multilevel Thresholding of the Medical Images. Advances in Bioinformatics and Biomedical Engineering Book Series, 2019, , 166-184.	0.2	2

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55	ECM-ILTP: An Efficient Classification model for categorization of Interstitial Lung Tissue Patterns. , 2021, , .		2
56	A novel compound-based loss function for glioma segmentation with deep learning. Optik, 2022, 265, 169443.	1.4	2
57	Face recognition techniques with permanent changes: A review. , 2015, , .		1
58	Evaluation of image forensic cues for fusion. , 2015, , .		1
59	A Robust and Fast Technique to Detect Copy Move Forgery in Digital Images Using SLIC Segmentation and SURF Keypoints. Advances in Intelligent Systems and Computing, 2017, , 787-793.	0.5	1
60	Feature selection using soft computing algorithms in biometrics. , 2017, , .		1
61	A new optimal relay nodes selection method for wireless sensor networks. , 2019, , .		1
62	Correction of Segmented Lung Boundary for Inclusion of Injured Diffused Regions from Chest HRCT Images. Lecture Notes in Networks and Systems, 2019, , 457-467.	0.5	1
63	Segmentation-based compression techniques for medical images. , 2020, , 185-203.		1
64	Visual Saliency Models Applied to ROI Detection for Brain MR Images: A Critical Appraisal and Future Prospects. SN Computer Science, 2021, 2, 1.	2.3	1
65	A Deep Learning Approach for Splicing Detection in Digital Audios. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 543-558.	0.5	1
66	A content based framework for mass retrieval in mammograms. Proceedings of SPIE, 2014, , .	0.8	0
67	Fuzzy Informer Homed Routing Protocol for Wireless Sensor Network. International Journal of Computer Networks and Communications, 2019, 11, 43-60.	0.3	0
68	Analysis of Stimuli Discrimination in Indian Patients with Chronic Schizophrenia. Advances in Intelligent Systems and Computing, 2019, , 49-59.	0.5	0
69	Detection of early emphysema regions in HRCT images using Fuzzy-C Mean. , 2021, , .		0
70	Non-Homomorphic Technique for Despeckling of Medical Ultrasound Images Using Curvelet Thresholding. Advanced Science Letters, 2015, 21, 107-111.	0.2	0
71	Social Spider Foraging Based Resource Placement Policies in Cloud Environment. Lecture Notes in Networks and Systems, 2019, , 923-931.	0.5	0