

Mahua Bhattacharya

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

474
citations

1040056

9
h-index

1058476

14
g-index

97
all docs

97
docs citations

97
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Affine-based registration of CT and MR modality images of human brain using multiresolution approaches: comparative study on genetic algorithm and particle swarm optimization. Neural Computing and Applications, 2011, 20, 223-237.	5.6	29
2	Quality assessment of modeled protein structure using physicochemical properties. Journal of Bioinformatics and Computational Biology, 2015, 13, 1550005.	0.8	21
3	GA Based Neuro Fuzzy Techniques for Breast Cancer Identification. , 2008, , .		20
4	Memetic Algorithm-Based Data Gathering Scheme for IoT-Enabled Wireless Sensor Networks. IEEE Sensors Journal, 2020, 20, 11725-11734.	4.7	19
5	Multi-level Thresholding Segmentation Approach Based on Spider Monkey Optimization Algorithm. Advances in Intelligent Systems and Computing, 2016, , 273-287.	0.6	17
6	Registration of CT and MR images of Alzheimer's patient: a shape theoretic approach. Pattern Recognition Letters, 2000, 21, 531-548.	4.2	15
7	Fuzzy Logic Based Segmentation of Microcalcification in Breast Using Digital Mammograms Considering Multiresolution. , 2007, , .		15
8	An automated computer-aided diagnosis system for classification of MR images using texture features and gbest-guided gravitational search algorithm. Biocybernetics and Biomedical Engineering, 2020, 40, 815-835.	5.9	14
9	Brain tumor segmentation of normal and lesion tissues using hybrid clustering and hierarchical centroid shape descriptor. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 676-689.	1.9	13
10	A Study on Prognosis of Brain Tumors Using Fuzzy Logic and Genetic Algorithm Based Techniques. , 2009, , .		12
11	A Combination of Bias-Field Corrected Fuzzy C-Means and Level Set Approach for Brain MRI Image Segmentation. , 2015, , .		12
12	Mammographic image segmentation by marker controlled watershed algorithm. , 2017, , .		12
13	Multi resolution medical image registration using maximization of mutual information & optimization by genetic algorithm. , 2007, , .		11
14	Effective image fusion method to study Alzheimer's disease using MR, PET images. , 2015, , .		10
15	Classification of breast tumors as benign and malignant using textural feature descriptor. , 2017, , .		10
16	Reversible Digital Image Watermarking Scheme Using Bit Replacement and Majority Algorithm Technique. Journal of Intelligent Learning Systems and Applications, 2012, 04, 199-206.	0.5	10
17	Speech based dialog query system over asterisk PBX server. , 2010, , .		9
18	Multimodality Medical Image Registration and Fusion Techniques Using Mutual Information and Genetic Algorithm-Based Approaches. Advances in Experimental Medicine and Biology, 2011, 696, 441-449.	1.6	9

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19	Computerized Decision Support System for Mass Identification in Breast Using Digital Mammogram: A Study on GA-Based Neuro-Fuzzy Approaches. <i>Advances in Experimental Medicine and Biology</i> , 2011, 696, 523-533.	1.6	9
20	Brain Tumor Segmentation with Skull Stripping and Modified Fuzzy C-Means. <i>Smart Innovation, Systems and Technologies</i> , 2019, , 229-237.	0.6	9
21	Hiding sensitive association rules efficiently by introducing new variable hiding counter. , 2008, , .		8
22	A fast and noise-adaptive rough-fuzzy hybrid algorithm for medical image segmentation. , 2010, , .		7
23	GA-based multiresolution fusion of segmented brain images using PD-, T1- and T2-weighted MR modalities. <i>Neural Computing and Applications</i> , 2012, 21, 1433-1447.	5.6	7
24	Social Spider Algorithm Employed Multi-level Thresholding Segmentation Approach. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 249-259.	0.6	7
25	Segmentation of tumor and edema based on K-mean clustering and hierarchical centroid shape descriptor. , 2017, , .		7
26	Genetic Algorithm Based Feature Selection In a Recognition Scheme Using Adaptive Neuro Fuzzy Techniques. <i>International Journal of Computers, Communications and Control</i> , 2014, 5, 458.	1.8	7
27	A STUDY ON GENETIC ALGORITHM BASED HYBRID SOFTCOMPUTING MODEL FOR BENIGNANCY/MALIGNANCY DETECTION OF MASSES USING DIGITAL MAMMOGRAM. <i>International Journal of Computational Intelligence and Applications</i> , 2011, 10, 141-165.	0.8	6
28	A new combined crypto-watermarking technique using RSA algorithm and discrete cosine transform to retrieve embedded EPR from noisy bio-medical images. , 2013, , .		6
29	Colour vision deficiency correction in image processing. , 2013, , .		6
30	Kapur's and Otsu's based optimal multilevel image thresholding using social spider and firefly algorithm. , 2016, , .		6
31	Navigation in Multi Robot system using cooperative learning: A survey. , 2016, , .		6
32	Performance analysis of 16-channel 80-gbps optical fiber communication system. , 2016, , .		6
33	A density invariant approach to clustering. <i>Neural Computing and Applications</i> , 2017, 28, 1695-1713.	5.6	6
34	Discrimination and quantification of live/dead rat brain cells using a non-linear segmentation model. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 1127-1146.	2.8	6
35	Retrieval of hidden infected region using biomedical image watermarking for tele-diagnosis to ensure better treatment. , 2012, , .		5
36	A variant of DBSCAN algorithm to find embedded and nested adjacent clusters. , 2016, , .		5

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37	Brain Tumor Segmentation of Normal and Pathological Tissues Using K-mean Clustering with Fuzzy C-mean Clustering. Lecture Notes in Computational Vision and Biomechanics, 2018, , 286-296.	0.5	5
38	Classification of brain MR images using Modified version of Simplified Pulse-Coupled Neural Network and Linear Programming Twin Support Vector Machines. Journal of Supercomputing, 2022, 78, 13831-13863.	3.6	5
39	Content-Based Medical Image Retrieval Using the Generic Fourier Descriptor with Brightness. , 2009, , .		4
40	Identification of microcalcifications and grading of masses using digital mammogram. International Journal of Medical Engineering and Informatics, 2010, 2, 122.	0.3	4
41	Optimized Coronary Artery Segmentation Using Frangi Filter and Anisotropic Diffusion Filtering. , 2013, , .		4
42	Study on neurodegeneration at different stages using MR images: computational approach to registration process with optimisation techniques. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 165-182.	1.9	4
43	Quantitative and Qualitative Image Analysis of In Vitro Co-Culture 3D Tumor Spheroid Model by Employing Image-Processing Techniques. Applied Sciences (Switzerland), 2021, 11, 4636.	2.5	4
44	A novel <sc>DeepML</sc> framework for multi-classification of breast cancer based on transfer learning. International Journal of Imaging Systems and Technology, 2022, 32, 1963-1977.	4.1	4
45	Identification of tiny and large calcification in breast: a study on mammographic image analysis. International Journal of Bioinformatics Research and Applications, 2010, 6, 418.	0.2	3
46	Biomedical image watermarking for content protection using multiple copies of information and bit majority algorithm in wavelet domain. , 2012, , .		3
47	Automatic Speech Recognition of accented Hindi data. , 2014, , .		3
48	Generation of novel encrypted code using cryptography for multiple level data security for Electronic Patient Record. , 2015, , .		3
49	Energy Conservation Schemes of Wireless Sensor Networks for IoT Applications: A Survey. , 2019, , .		3
50	Automated Diagnosis system for detection of the pathological brain using Fast version of Simplified Pulse-Coupled Neural Network and Twin Support Vector Machine. Multimedia Tools and Applications, 2021, 80, 30479-30502.	3.9	3
51	Registration of Multimodality Medical Imaging of Brain using Particle Swarm Optimization. , 2009, , 131-139.		3
52	SOFT COMPUTING BASED DECISION MAKING APPROACH FOR TUMOR MASS IDENTIFICATION IN MAMMOGRAM. International Journal of Bioinformatics Research, 2009, 1, 37-46.	0.3	3
53	Biomedical Watermarking. Advances in Computational Intelligence and Robotics Book Series, 2014, , 208-234.	0.4	3
54	Segmentation of Cotton Bolls by Efficient Feature Selection Using Conventional Fuzzy C-Means Algorithm with Perception of Color. Advances in Intelligent Systems and Computing, 2016, , 731-741.	0.6	3

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55	Evolutionary algorithm based automated medical image fusion technique: Comparative study with fuzzy fusion approach. , 2009, , .		2
56	Segmentation of medical images using Selective Binary and Gaussian Filtering regularized level set (SBGFRLS) method. , 2010, , .		2
57	GUI based smart breast cancer identification system for mammographic images through 2 nd level secured combined Crypto-watermarking. , 2014, , .		2
58	Medical image registration using extremal region based interest points. , 2015, , .		2
59	Affinity based seeded region growing algorithm for medical image segmentation. , 2015, , .		2
60	MR brain tumor detection employing Laplacian Eigen maps and kernel support vector machine. , 2016, , .		2
61	A Generic Algorithm for Segmenting a Specified Region of Interest Based on Chanvese's Algorithm and Active Contours. Advances in Intelligent Systems and Computing, 2016, , 239-247.	0.6	2
62	An Automatic Cell Nuclei Segmentation based on Deep Learning Strategies. , 2019, , .		2
63	A novel vague set approach for selective contrast enhancement of mammograms using multiresolution. Journal of Biomedical Science and Engineering, 2009, 02, 575-581.	0.4	2
64	Secure Transmission and Recovery of Embedded Patient Information from Biomedical Images of Different Modalities through a Combination of Cryptography and Watermarking. International Journal of Image Graphics and Signal Processing, 2014, 6, 18-31.	1.2	2
65	ASR System Integration with Asterisk for SIP or IAX Softphone Clients. , 2009, , .		1
66	Fast hybrid rough-set theoretic fuzzy clustering technique with application to multispectral image segmentation. , 2010, , .		1
67	Hybrid softcomputing model for lesion identification and information combination: some case studies. International Journal of Data Mining and Bioinformatics, 2012, 6, 335.	0.1	1
68	Analytical assessment of intelligent segmentation techniques for cortical tissues of MR brain images: a comparative study. Artificial Intelligence Review, 2012, 37, 69-81.	15.7	1
69	Collaborative rough-fuzzy clustering: An application to intensity non-uniformity correction in brain MR images. , 2013, , .		1
70	Speaker Independent Speech Recognition Implementation with Adaptive Language Models. , 2013, , .		1
71	User History Based Mail Filtering Process. , 2013, , .		1
72	Structure stability analysis of Ni_n(n = 2 - 22) using nature inspired algorithms: a performance study. International Journal of Advanced Intelligence Paradigms, 2013, 5, 16.	0.3	1

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73	Quick object extraction in fuzzy framework. , 2014, , .		1
74	On global transform preservation by region based interest points for image registration. , 2015, , .		1
75	Blur robust extremal region-based interest points for medical image registration. Pattern Analysis and Applications, 2018, 21, 45-56.	4.6	1
76	Segmentation of Heavily Clustered Cell Nuclei in Histopathological Images. Lecture Notes in Computational Vision and Biomechanics, 2018, , 244-254.	0.5	1
77	Guided Reproduction in Differential Evolution. Lecture Notes in Computer Science, 2012, , 117-127.	1.3	1
78	Toolkit for grid-enabled high resolution image processing. , 2010, , .		0
79	Classification of poor contrast mammograms using a novel and fast boundary detection technique. , 2011, , .		0
80	Development of advanced contrast enhancement technique for mammographic images. , 2012, , .		0
81	An Efficient Approach to Set Up High Performance Network Center in Academia. , 2013, , .		0
82	Development of CAD system for analysis of vague set theory based contrast enhancement technique in mammograms. International Journal of Hybrid Intelligent Systems, 2014, 11, 227-240.	1.2	0
83	Safe Transmission of Text Files through a New Audio Steganography Technique. , 2014, , .		0
84	Consignor Is a Spammer. , 2014, , .		0
85	GUI Based Brain Tumor Identification System by Detecting Infected Region through a Combination of Region Growing, Cryptography, and Digital Watermarking Technique. , 2014, , .		0
86	Automatic classification of cotton boll using signature curve and boundary descriptors. , 2015, , .		0
87	Automatic parameter setting of pulse coupled neural network for image segmentation. , 2016, , .		0
88	Detectors and descriptors for registration of illumination varying, globally distorted images. International Journal of Computers and Applications, 2016, 38, 75-81.	1.3	0
89	Nissl Stained Rat Brain Cell Image Analysis Post Exposure to Electromagnetic Fields Using Image Processing Techniques. , 2018, , .		0
90	Study of Image Segmentation Techniques on Microscopic Cell Images of Section of Rat Brain for Identification of Cell Body and Dendrite. Advances in Intelligent Systems and Computing, 2018, , 452-462.	0.6	0

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91	Segmentation of CA3 Hippocampal Region of Rat Brain Cells Images Based on Bio-inspired Clustering Technique. , 2019, , .		0
92	A Novel Computational Approach based on 3D Reconstruction and WEKA Tool to analyse the morphology of Golgi-Cox stained Rat Brain Cells. , 2019, , .		0
93	Tumor Mass Identification Based on Surface Analysis and Fractal Dimensions. Lecture Notes in Electrical Engineering, 2013, , 173-180.	0.4	0
94	Multiresolution Framework Based Global Optimization Technique for Multimodal Image Registration. Communications in Computer and Information Science, 2013, , 336-347.	0.5	0
95	A Diversity-Based Comparative Study for Advance Variants of Differential Evolution. Advances in Intelligent Systems and Computing, 2014, , 1317-1331.	0.6	0
96	Biomedical Watermarking. , 2018, , 618-646.		0