Sushmita Mitra

List of Publications by Year in Descending Order

104 papers	4,435 citations	26 h-index	66 g-index
109 ext. papers	5,177 ext. citations	4 avg, IF	5.86 L-index

#	Paper	IF	Citations
104	Deep learning for noninvasive management of brain tumors **2022**, 15-34		
103	DeepSGP: Deep Learning for Gene Selection and Survival Group Prediction in Glioblastoma. *Electronics (Switzerland)*, **2021**, 10, 1463	2.6	
102	Novel Volumetric Sub-region Segmentation in Brain Tumors. *Frontiers in Computational Neuroscience*, **2020**, 14, 3	3.5	11
101	Deep Learning for Screening COVID-19 using Chest X-Ray Images **2020**,		25
100	Ensemble of CNNs for Segmentation of Glioma Sub-regions with Survival Prediction. *Lecture Notes in Computer Science*, **2020**, 37-49	0.9	3
99	Fuzzy volumetric delineation of brain tumor and survival prediction. *Soft Computing*, **2020**, 24, 13115-13134	3.5	2
98	A novel adaptive k-NN classifier for handling imbalance: Application to brain MRI. *Intelligent Data Analysis*, **2020**, 24, 909-924	1.1	1
97	Glioma Classification Using Deep Radiomics. *SN Computer Science*, **2020**, 1, 1	2	6
96	Iris Segmentation Using Interactive Deep Learning. *IEEE Access*, **2020**, 8, 219322-219330	3.5	4
95	FuzzyCIE: fuzzy colour image enhancement for low-exposure images. *Soft Computing*, **2020**, 24, 2151-2167	3.5	2
94	Decision tree for modeling survival data with competing risks. *Biocybernetics and Biomedical Engineering*, **2019**, 39, 697-708	5.7	5
93	Brain Tumor Detection and Classification from Multi-sequence MRI: Study Using ConvNets. *Lecture Notes in Computer Science*, **2019**, 170-179	0.9	12
92	Multi-planar Spatial-ConvNet for Segmentation and Survival Prediction in Brain Cancer. *Lecture Notes in Computer Science*, **2019**, 94-104	0.9	10
91	Blind Entity Identification for Agricultural IoT Deployments. *IEEE Internet of Things Journal*, **2019**, 6, 3156-3163	9.1	20
90	Soft computing and intelligent systems: Techniques and applications. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 1237-1241	1.6	
89	Iris localization using rough entropy and CSA: A soft computing approach. *Applied Soft Computing Journal*, **2018**, 67, 61-69	7.5	19
88	Automated 3D segmentation of brain tumor using visual saliency. *Information Sciences*, **2018**, 424, 337-353	5.7	25

87	ROI Segmentation from Brain MR Images with a Fast Multilevel Thresholding. *Advances in Intelligent Systems and Computing*, **2017**, 249-259	0.4	2
86	Feature Selection Through Message Passing. *IEEE Transactions on Cybernetics*, **2017**, 47, 4356-4366	10.2	9
85	**2017**,		9
84	Single seed delineation of brain tumor using multi-thresholding. *Information Sciences*, **2016**, 330, 88-103	7.7	28
83	Recursive-Rule Extraction Algorithm With J48graft And Applications To Generating Credit Scores. *Journal of Artificial Intelligence and Soft Computing Research*, **2016**, 6, 35-44	5.1	21
82	A Novel GBM Saliency Detection Model Using Multi-Channel MRI. *PLoS ONE*, **2016**, 11, e0146388	3.7	28
81	Multi-objective optimization of shared nearest neighbor similarity for feature selection. *Applied Soft Computing Journal*, **2015**, 37, 751-762	7.5	14
80	Facial Expressions: A Cross-Cultural Study **2015**, 69-87		2
79	Medical image analysis for cancer management in natural computing framework. *Information Sciences*, **2015**, 306, 111-131	7.7	43
78	Fuzzy clustering with biological knowledge for gene selection. *Applied Soft Computing Journal*, **2014**, 16, 102-111	7.5	17
77	Integrating Radio Imaging With Gene Expressions Toward a Personalized Management of Cancer. *IEEE Transactions on Human-Machine Systems*, **2014**, 44, 664-677	4.1	12
76	Robust Radiomics feature quantification using semiautomatic volumetric segmentation. *PLoS ONE*, **2014**, 9, e102107	3.7	363
75	Clustering large data with uncertainty. *Applied Soft Computing Journal*, **2013**, 13, 1639-1645	7.5	6
74	A new approach to three ensemble neural network rule extraction using recursive-rule extraction algorithm **2013**,		13
73	Fuzzy texture descriptors for early diagnosis of osteoarthritis **2013**,		2
72	Feature selection using structural similarity. *Information Sciences*, **2012**, 198, 48-61	7.7	25
71	Extracting gene-gene interactions through curve fitting. *IEEE Transactions on Nanobioscience*, **2012**, 11, 402-9	3.4	1
70	Gene selection using biological knowledge and fuzzy clustering **2012**,		1

69	. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2012**, 42, 1590-1599		16
68	Aggregation of Correlation Measures for the Reverse Engineering of Gene Regulatory Sub-networks. *Lecture Notes in Computer Science*, **2012**, 235-242	0.9	
67	Feature Selection, Classification and Rule Generation Using Rough Sets. *Advanced Information and Knowledge Processing*, **2012**, 51-76	0.3	1
66	Genetic networks and soft computing. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2011**, 8, 94-107	3	41
65	Satellite image segmentation with Shadowed C-Means. *Information Sciences*, **2011**, 181, 3601-3613	7.7	43
64	Recognizing Hand Gestures of a Dancer. *Lecture Notes in Computer Science*, **2011**, 186-192	0.9	18
63	Evolutionary-Rough Feature Selection for Face Recognition. *Lecture Notes in Computer Science*, **2010**, 117-142	0.9	2
62	Shadowed c-means: Integrating fuzzy and rough clustering. *Pattern Recognition*, **2010**, 43, 1282-1291	7.7	105
61	Gene interaction An evolutionary biclustering approach. *Information Fusion*, **2009**, 10, 242-249	16.7	21
60	Natural computing methods in bioinformatics: A survey. *Information Fusion*, **2009**, 10, 211-216	16.7	17
59	Gene Interactions Sub-networks and Soft Computing. *Studies in Computational Intelligence*, **2009**, 313-327	7.8	
58	Incorporating Fuzziness to CLARANS. *Lecture Notes in Computer Science*, **2009**, 122-127	0.9	2
57	Cross-Correlation and Evolutionary Biclustering: Extracting Gene Interaction Sub-networks. *Lecture Notes in Computer Science*, **2009**, 199-204	0.9	1
56	Multi-objective Evolutionary Feature Selection. *Lecture Notes in Computer Science*, **2009**, 74-79	0.9	1
55	A Least Squares Fitting-Based Modeling of Gene Regulatory Sub-networks. *Lecture Notes in Computer Science*, **2009**, 165-170	0.9	
54	Shadowed Clustering for Speech Data and Medical Image Segmentation. *Lecture Notes in Computer Science*, **2008**, 475-484	0.9	2
53	Rough-Fuzzy Clustering: An Application to Medical Imagery **2008**, 300-307		16
52	Evolutionary Rough Feature Selection in Gene Expression Data. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2007**, 37, 622-632		101

51	Gesture Recognition: A Survey. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2007**, 37, 311-324		1081
50	Application of Rough Sets in Pattern Recognition **2007**, 151-169		8
49	Evolutionary Fuzzy Biclustering of Gene Expression Data **2007**, 284-291		3
48	Evolutionary Biclustering with Correlation for Gene Interaction Networks **2007**, 416-424		8
47	Reduct Generation and Classification of Gene Expression Data **2006**,		15
46	Possibilistic Approach to Biclustering: An Application to Oligonucleotide Microarray Data Analysis. *Lecture Notes in Computer Science*, **2006**, 312-322	0.9	12
45	Rough-fuzzy collaborative clustering. *IEEE Transactions on Systems, Man, and Cybernetics*, **2006**, 36, 795-805		188
44	Feature extraction and connectionist classification of SODAR echograms. *IEEE Geoscience and Remote Sensing Letters*, **2006**, 3, 19-22	4.1	2
43	Special Issue on Bioinformatics. *Pattern Recognition*, **2006**, 39, 2265-2266	7.7	6
42	Multi-objective evolutionary biclustering of gene expression data. *Pattern Recognition*, **2006**, 39, 2464-2477	7.7	180
41	Evolutionary biclustering of gene expressions. *Ubiquity*, **2006**, 2006, 1-12	0.3	17
40	Feature Selection Using Rough Sets **2006**, 1-20		
39	Hidden Markov Models, grammars, and biology: a tutorial. *Journal of Bioinformatics and Computational Biology*, **2005**, 3, 491-526	1	17
38	Computational Intelligence in Bioinformatics. *Lecture Notes in Computer Science*, **2005**, 134-152	0.9	11
37	Symbolic classification, clustering and fuzzy radial basis function network. *Fuzzy Sets and Systems*, **2005**, 152, 553-564	3.7	26
36	Fuzzy sets in pattern recognition and machine intelligence. *Fuzzy Sets and Systems*, **2005**, 156, 381-386	3.7	65
35	Collaborative Rough Clustering. *Lecture Notes in Computer Science*, **2005**, 768-773	0.9	4
34	Fuzzy radial basis function network: a parallel design. *Neural Computing and Applications*, **2004**, 13, 261-268		3

33	Web mining: a survey in the fuzzy framework. *Fuzzy Sets and Systems*, **2004**, 148, 5-19	3.7	53
32	An evolutionary rough partitive clustering. *Pattern Recognition Letters*, **2004**, 25, 1439-1449	4.7	101
31	Special Issue on Web mining using soft computing. *Fuzzy Sets and Systems*, **2004**, 148, 1-3	3.7	3
30	A connectionist approach to SODAR pattern classification. *IEEE Geoscience and Remote Sensing Letters*, **2004**, 1, 42-46	4.1	4
29	Clustering and its validation in a symbolic framework. *Pattern Recognition Letters*, **2003**, 24, 2367-2376	4.7	46
28	Rough-fuzzy MLP: modular evolution, rule generation, and evaluation. *IEEE Transactions on Knowledge and Data Engineering*, **2003**, 15, 14-25	4.2	66
27	Data mining in soft computing framework: a survey. *IEEE Transactions on Neural Networks*, **2002**, 13, 3-14		330
26	Clustering of Symbolic Data and Its Validation. *Lecture Notes in Computer Science*, **2002**, 339-344	0.9	5
25	FRBF: A Fuzzy Radial Basis Function Network. *Neural Computing and Applications*, **2001**, 10, 244-252	4.8	29
24	Incorporation of Fuzziness in ID3 and Generation of Network Architerture. *Neural Computing and Applications*, **2001**, 10, 155-164	4.8	1
23	Evolutionary Modular MLP with Rough Sets and ID3 Algorithm for Staging of Cervical Cancer. *Neural Computing and Applications*, **2001**, 10, 67-76	4.8	8
22	Evolutionary modular design of rough knowledge-based network using fuzzy attributes. *Neurocomputing*, **2001**, 36, 45-66	5.4	24
21	Staging of cervical cancer with soft computing. *IEEE Transactions on Biomedical Engineering*, **2000**, 47, 934-40	5	51
20	Neuro-fuzzy rule generation: survey in soft computing framework. *IEEE Transactions on Neural Networks*, **2000**, 11, 748-68		448
19	Modular Rough Fuzzy MLP: Evolutionary Design. *Lecture Notes in Computer Science*, **1999**, 128-136	0.9	4
18	Feature Selection Using Radial Basis Function Networks. *Neural Computing and Applications*, **1999**, 8, 297-302	4.8	12
17	Rough knowledge-based network, fuzziness and classification. *Neural Computing and Applications*, **1998**, 7, 17-25	4.8	1
16	Rough fuzzy MLP: knowledge encoding and classification. *IEEE Transactions on Neural Networks*, **1998**, 9, 1203-16		103

15	Expert systems in soft computing paradigm. *Neural Network Systems Techniques and Applications*, **1998**, 211-241		
14	Knowledge-based fuzzy MLP for classification and rule generation. *IEEE Transactions on Neural Networks*, **1997**, 8, 1338-50		56
13	Neuro-Fuzzy Expert Systems: Relevance, Features and Methodologies. *IETE Journal of Research*, **1996**, 42, 335-347	0.9	7
12	Noisy fingerprint classification using multilayer perceptron with fuzzy geometrical and textural features. *Fuzzy Sets and Systems*, **1996**, 80, 121-132	3.7	14
11	An MLP-based model for identifying qEEG in depression. *International Journal of Bio-medical Computing*, **1996**, 43, 179-87		7
10	Improving classification performance using fuzzy MLP and two-level selective partitioning of the feature space. *Fuzzy Sets and Systems*, **1995**, 70, 1-13	3.7	29
9	Fuzzy multi-layer perceptron, inferencing and rule generation. *IEEE Transactions on Neural Networks*, **1995**, 6, 51-63		120
8	Fingerprint classification using a fuzzy multilayer perceptron. *Neural Computing and Applications*, **1994**, 2, 227-233	4.8	8
7	Fuzzy versions of Kohonen's net and MLP-based classification: Performance evaluation for certain nonconvex decision regions. *Information Sciences*, **1994**, 76, 297-337	7.7	16
6	Logical operation based fuzzy MLP for classification and rule generation. *Neural Networks*, **1994**, 7, 353-373	5.3	51
5	Fuzzy MLP based expert system for medical diagnosis. *Fuzzy Sets and Systems*, **1994**, 65, 285-296	3.7	47
4	Neuro-Fuzzy Expert Systems: Overview with a Case Study **1994**, 121-143		4
3	Fuzzy dynamic clustering algorithm. *Pattern Recognition Letters*, **1990**, 11, 525-535	4.7	10
2	Implementation of fault simulation and testing of combinational circuits. *International Journal of Electronics*, **1989**, 66, 665-678	1.2	
1	Rough-Neural Methodologies in Granular Computing657-669		1