

Sushmita Mitra

List of Publications by Year in descending order

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105
papers

5,955
citations

186209

28
h-index

76872

74
g-index

109
all docs

109
docs citations

109
times ranked

5110
citing authors

#	ARTICLE	IF	CITATIONS
1	Gesture Recognition: A Survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 311-324.	3.3	1,476
2	Neuro-fuzzy rule generation: survey in soft computing framework. IEEE Transactions on Neural Networks, 2000, 11, 748-768.	4.8	576
3	Robust Radiomics Feature Quantification Using Semiautomatic Volumetric Segmentation. PLoS ONE, 2014, 9, e102107.	1.1	488
4	Data mining in soft computing framework: a survey. IEEE Transactions on Neural Networks, 2002, 13, 3-14.	4.8	471
5	Rough Fuzzy Collaborative Clustering. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 795-805.	5.5	232
6	Multi-objective evolutionary biclustering of gene expression data. Pattern Recognition, 2006, 39, 2464-2477.	5.1	221
7	Fuzzy multi-layer perceptron, inferencing and rule generation. IEEE Transactions on Neural Networks, 1995, 6, 51-63.	4.8	162
8	Rough fuzzy MLP: knowledge encoding and classification. IEEE Transactions on Neural Networks, 1998, 9, 1203-1216.	4.8	132
9	Evolutionary Rough Feature Selection in Gene Expression Data. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 622-632.	3.3	125
10	Shadowed c-means: Integrating fuzzy and rough clustering. Pattern Recognition, 2010, 43, 1282-1291.	5.1	122
11	An evolutionary rough partitive clustering. Pattern Recognition Letters, 2004, 25, 1439-1449.	2.6	115
12	Deep Learning for Screening COVID-19 using Chest X-Ray Images. , 2020, , .		91
13	Fuzzy sets in pattern recognition and machine intelligence. Fuzzy Sets and Systems, 2005, 156, 381-386.	1.6	90
14	Rough-fuzzy mlp: modular evolution, rule generation, and evaluation. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 14-25.	4.0	87
15	Web mining: a survey in the fuzzy framework. Fuzzy Sets and Systems, 2004, 148, 5-19.	1.6	77
16	Knowledge-based fuzzy MLP for classification and rule generation. IEEE Transactions on Neural Networks, 1997, 8, 1338-1350.	4.8	65
17	Staging of cervical cancer with soft computing. IEEE Transactions on Biomedical Engineering, 2000, 47, 934-940.	2.5	65
18	Logical operation based fuzzy MLP for classification and rule generation. Neural Networks, 1994, 7, 353-373.	3.3	64

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19	Fuzzy MLP based expert system for medical diagnosis. Fuzzy Sets and Systems, 1994, 65, 285-296.	1.6	61
20	Medical image analysis for cancer management in natural computing framework. Information Sciences, 2015, 306, 111-131.	4.0	58
21	Clustering and its validation in a symbolic framework. Pattern Recognition Letters, 2003, 24, 2367-2376.	2.6	55
22	Satellite image segmentation with Shadowed C-Means. Information Sciences, 2011, 181, 3601-3613.	4.0	53
23	Genetic Networks and Soft Computing. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 94-107.	1.9	49
24	Automated 3D segmentation of brain tumor using visual saliency. Information Sciences, 2018, 424, 337-353.	4.0	45
25	A Novel GBM Saliency Detection Model Using Multi-Channel MRI. PLoS ONE, 2016, 11, e0146388.	1.1	41
26	Single seed delineation of brain tumor using multi-thresholding. Information Sciences, 2016, 330, 88-103.	4.0	36
27	Improving classification performance using fuzzy MLP and two-level selective partitioning of the feature space. Fuzzy Sets and Systems, 1995, 70, 1-13.	1.6	35
28	Symbolic classification, clustering and fuzzy radial basis function network. Fuzzy Sets and Systems, 2005, 152, 553-564.	1.6	34
29	FRBF: A Fuzzy Radial Basis Function Network. Neural Computing and Applications, 2001, 10, 244-252.	3.2	31
30	Iris localization using rough entropy and CSA: A soft computing approach. Applied Soft Computing Journal, 2018, 67, 61-69.	4.1	29
31	Feature selection using structural similarity. Information Sciences, 2012, 198, 48-61.	4.0	28
32	Recognizing Hand Gestures of a Dancer. Lecture Notes in Computer Science, 2011, , 186-192.	1.0	28
33	Gene interaction " An evolutionary biclustering approach. Information Fusion, 2009, 10, 242-249.	11.7	27
34	Blind Entity Identification for Agricultural IoT Deployments. IEEE Internet of Things Journal, 2019, 6, 3156-3163.	5.5	27
35	Evolutionary modular design of rough knowledge-based network using fuzzy attributes. Neurocomputing, 2001, 36, 45-66.	3.5	26
36	HIDDEN MARKOV MODELS, GRAMMARS, AND BIOLOGY: A TUTORIAL. Journal of Bioinformatics and Computational Biology, 2005, 03, 491-526.	0.3	25

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37	Natural computing methods in bioinformatics: A survey. Information Fusion, 2009, 10, 211-216.	11.7	24
38	Brain Tumor Detection and Classification from Multi-sequence MRI: Study Using ConvNets. Lecture Notes in Computer Science, 2019, , 170-179.	1.0	24
39	Iris Segmentation Using Interactive Deep Learning. IEEE Access, 2020, 8, 219322-219330.	2.6	23
40	Evolutionary biclustering of gene expressions. Ubiquity, 2006, 2006, 1-12.	0.2	23
41	Recursive-Rule Extraction Algorithm With J48graft And Applications To Generating Credit Scores. Journal of Artificial Intelligence and Soft Computing Research, 2016, 6, 35-44.	3.5	22
42	Multi-planar Spatial-ConvNet for Segmentation and Survival Prediction in Brain Cancer. Lecture Notes in Computer Science, 2019, , 94-104.	1.0	20
43	Feature Selection and Clustering of Gene Expression Profiles Using Biological Knowledge. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1590-1599.	3.3	19
44	Fuzzy versions of Kohonen's net and MLP-based classification: Performance evaluation for certain nonconvex decision regions. Information Sciences, 1994, 76, 297-337.	4.0	18
45	Noisy fingerprint classification using multilayer perceptron with fuzzy geometrical and textural features. Fuzzy Sets and Systems, 1996, 80, 121-132.	1.6	18
46	Possibilistic Approach to Biclustering: An Application to Oligonucleotide Microarray Data Analysis. Lecture Notes in Computer Science, 2006, , 312-322.	1.0	18
47	Fuzzy clustering with biological knowledge for gene selection. Applied Soft Computing Journal, 2014, 16, 102-111.	4.1	18
48	Integrating Radio Imaging With Gene Expressions Toward a Personalized Management of Cancer. IEEE Transactions on Human-Machine Systems, 2014, 44, 664-677.	2.5	18
49	Multi-objective optimization of shared nearest neighbor similarity for feature selection. Applied Soft Computing Journal, 2015, 37, 751-762.	4.1	18
50	Fuzzy dynamic clustering algorithm. Pattern Recognition Letters, 1990, 11, 525-535.	2.6	17
51	A new approach to three ensemble neural network rule extraction using recursive-rule extraction algorithm. , 2013, , .		17
52	Novel Volumetric Sub-region Segmentation in Brain Tumors. Frontiers in Computational Neuroscience, 2020, 14, 3.	1.2	17
53	Rough-Fuzzy Clustering: An Application to Medical Imagery. , 2008, , 300-307.		17
54	Glioma Classification Using Deep Radiomics. SN Computer Science, 2020, 1, 1.	2.3	16

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55	Evolutionary Modular MLP with Rough Sets and ID3 Algorithm for Staging of Cervical Cancer. Neural Computing and Applications, 2001, 10, 67-76.	3.2	15
56	Reduct Generation and Classification of Gene Expression Data. , 2006, , .		15
57	Synergetic neuro-fuzzy feature selection and classification of brain tumors. , 2017, , .		15
58	Feature Selection Through Message Passing. IEEE Transactions on Cybernetics, 2017, 47, 4356-4366.	6.2	14
59	Computational Intelligence in Bioinformatics. Lecture Notes in Computer Science, 2005, , 134-152.	1.0	13
60	Feature Selection Using Radial Basis Function Networks. Neural Computing and Applications, 1999, 8, 297-302.	3.2	12
61	Decision tree for modeling survival data with competing risks. Biocybernetics and Biomedical Engineering, 2019, 39, 697-708.	3.3	12
62	Application of Rough Sets in Pattern Recognition. , 2007, , 151-169.		12
63	Evolutionary Biclustering with Correlation for Gene Interaction Networks. , 2007, , 416-424.		12
64	Neuro-Fuzzy Expert Systems: Relevance, Features and Methodologies. IETE Journal of Research, 1996, 42, 335-347.	1.8	11
65	Special Issue on Bioinformatics. Pattern Recognition, 2006, 39, 2265-2266.	5.1	11
66	An MLP-based model for identifying qEEG in depression. International Journal of Bio-medical Computing, 1996, 43, 179-187.	0.5	10
67	Fingerprint classification using a fuzzy multilayer perceptron. Neural Computing and Applications, 1994, 2, 227-233.	3.2	9
68	FuzzyCIE: fuzzy colour image enhancement for low-exposure images. Soft Computing, 2020, 24, 2151-2167.	2.1	9
69	Clustering of Symbolic Data and Its Validation. Lecture Notes in Computer Science, 2002, , 339-344.	1.0	8
70	Special Issue on Web mining using soft computing. Fuzzy Sets and Systems, 2004, 148, 1-3.	1.6	6
71	Clustering large data with uncertainty. Applied Soft Computing Journal, 2013, 13, 1639-1645.	4.1	6
72	Evolutionary Fuzzy Biclustering of Gene Expression Data. , 2007, , 284-291.		6

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73	A Connectionist Approach to SODAR Pattern Classification. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 42-46.	1.4	5
74	Evolutionary-Rough Feature Selection for Face Recognition. Lecture Notes in Computer Science, 2010, , 117-142.	1.0	5
75	Fuzzy volumetric delineation of brain tumor and survival prediction. Soft Computing, 2020, 24, 13115-13134.	2.1	5
76	Fuzzy radial basis function network: a parallel design. Neural Computing and Applications, 2004, 13, 261-267.	3.2	4
77	Collaborative Rough Clustering. Lecture Notes in Computer Science, 2005, , 768-773.	1.0	4
78	Neuro-Fuzzy Expert Systems: Overview with a Case Study. , 1994, , 121-143.		4
79	Ensemble of CNNs for Segmentation of Glioma Sub-regions with Survival Prediction. Lecture Notes in Computer Science, 2020, , 37-49.	1.0	4
80	Fuzzy texture descriptors for early diagnosis of osteoarthritis. , 2013, , .		3
81	A novel adaptive k-NN classifier for handling imbalance: Application to brain MRI. Intelligent Data Analysis, 2020, 24, 909-924.	0.4	3
82	Shadowed Clustering for Speech Data and Medical Image Segmentation. Lecture Notes in Computer Science, 2008, , 475-484.	1.0	3
83	Feature Extraction and Connectionist Classification of SODAR Echograms. IEEE Geoscience and Remote Sensing Letters, 2006, 3, 19-22.	1.4	2
84	Natural Computing Methods in Bioinformatics. Information Fusion, 2009, 10, 210.	11.7	2
85	Gene selection using biological knowledge and fuzzy clustering. , 2012, , .		2
86	ROI Segmentation from Brain MR Images with a Fast Multilevel Thresholding. Advances in Intelligent Systems and Computing, 2017, , 249-259.	0.5	2
87	Incorporating Fuzziness to CLARANS. Lecture Notes in Computer Science, 2009, , 122-127.	1.0	2
88	Rough knowledge-based network, fuzziness and classification. Neural Computing and Applications, 1998, 7, 17-25.	3.2	1
89	Incorporation of Fuzziness in ID3 and Generation of Network Architecture. Neural Computing and Applications, 2001, 10, 155-164.	3.2	1
90	Roughâ€“Neural Methodologies in Granular Computing. , 0, , 657-669.		1

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91	Extracting Gene-Gene Interactions Through Curve Fitting. IEEE Transactions on Nanobioscience, 2012, 11, 402-409.	2.2	1
92	DeepSGP: Deep Learning for Gene Selection and Survival Group Prediction in Glioblastoma. Electronics (Switzerland), 2021, 10, 1463.	1.8	1
93	Feature Selection, Classification and Rule Generation Using Rough Sets. Advanced Information and Knowledge Processing, 2012, , 51-76.	0.2	1
94	Cross-Correlation and Evolutionary Biclustering: Extracting Gene Interaction Sub-networks. Lecture Notes in Computer Science, 2009, , 199-204.	1.0	1
95	Multi-objective Evolutionary Feature Selection. Lecture Notes in Computer Science, 2009, , 74-79.	1.0	1
96	Implementation of fault simulation and testing of combinational circuits. International Journal of Electronics, 1989, 66, 665-678.	0.9	0
97	Soft computing and intelligent systems: Techniques and applications. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1237-1241.	0.8	0
98	Predictive Intra-Edge Packet-Source Mapping in Agricultural Internet of Things. , 2018, , .		0
99	A Least Squares Fitting-Based Modeling of Gene Regulatory Sub-networks. Lecture Notes in Computer Science, 2009, , 165-170.	1.0	0
100	Aggregation of Correlation Measures for the Reverse Engineering of Gene Regulatory Sub-networks. Lecture Notes in Computer Science, 2012, , 235-242.	1.0	0
101	Expert systems in soft computing paradigm. Neural Network Systems Techniques and Applications, 1998, , 211-241.	0.0	0
102	Reminisces from the Past. , 2016, , 261-266.		0
103	Gene Interactions Sub-networks and Soft Computing. Studies in Computational Intelligence, 2009, , 313-327.	0.7	0
104	Deep learning for noninvasive management of brain tumors. , 2022, , 15-34.		0
105	Feature Selection Using Rough Sets. , 2006, , 1-20.		0