

Pradipta Maji

List of Publications by Year in descending order

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137
papers

1,910
citations

279487

23
h-index

301761

39
g-index

154
all docs

154
docs citations

154
times ranked

1161
citing authors

#	ARTICLE	IF	CITATIONS
1	Rough Set Based Generalized Fuzzy α -Means Algorithm and Quantitative Indices. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1529-1540.	5.5	199
2	Rough set based maximum relevance-maximum significance criterion and Gene selection from microarray data. International Journal of Approximate Reasoning, 2011, 52, 408-426.	1.9	126
3	Fuzzy α -Rough Sets for Information Measures and Selection of Relevant Genes From Microarray Data. IEEE Transactions on Systems, Man, and Cybernetics, 2010, 40, 741-752.	5.5	80
4	Rough-Fuzzy Clustering for Grouping Functionally Similar Genes from Microarray Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 286-299.	1.9	75
5	Fuzzy α -Rough Supervised Attribute Clustering Algorithm and Classification of Microarray Data. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 222-233.	5.5	70
6	α -Information Measures for Efficient Selection of Discriminative Genes From Microarray Data. IEEE Transactions on Biomedical Engineering, 2009, 56, 1063-1069.	2.5	62
7	Content-based image retrieval using visually significant point features. Fuzzy Sets and Systems, 2009, 160, 3323-3341.	1.6	58
8	Feature Selection Using α -Information Measures in Fuzzy Approximation Spaces. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 854-867.	4.0	55
9	A Rough Hypercuboid Approach for Feature Selection in Approximation Spaces. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 16-29.	4.0	51
10	On fuzzy-rough attribute selection: Criteria of Max-Dependency, Max-Relevance, Min-Redundancy, and Max-Significance. Applied Soft Computing Journal, 2013, 13, 3968-3980.	4.1	46
11	Fuzzy α -Rough Simultaneous Attribute Selection and Feature Extraction Algorithm. IEEE Transactions on Cybernetics, 2013, 43, 1166-1177.	6.2	44
12	Rough-Fuzzy C-Medoids Algorithm and Selection of Bio-Basis for Amino Acid Sequence Analysis. IEEE Transactions on Knowledge and Data Engineering, 2007, 19, 859-872.	4.0	43
13	Mutual Information-Based Supervised Attribute Clustering for Microarray Sample Classification. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 127-140.	4.0	41
14	Rough-fuzzy clustering and multiresolution image analysis for text-graphics segmentation. Applied Soft Computing Journal, 2015, 30, 705-721.	4.1	32
15	Relevant and Significant Supervised Gene Clusters for Microarray Cancer Classification. IEEE Transactions on Nanobioscience, 2012, 11, 161-168.	2.2	31
16	IT2 Fuzzy-Rough Sets and Max Relevance-Max Significance Criterion for Attribute Selection. IEEE Transactions on Cybernetics, 2015, 45, 1657-1668.	6.2	31
17	Rough Sets and Stomped Normal Distribution for Simultaneous Segmentation and Bias Field Correction in Brain MR Images. IEEE Transactions on Image Processing, 2015, 24, 5764-5776.	6.0	29
18	Design and Characterization of Cellular Automata Based Associative Memory for Pattern Recognition. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 672-678.	5.5	28

#	ARTICLE	IF	CITATIONS
19	Maximum Class Separability for Rough-Fuzzy C-Means Based Brain MR Image Segmentation. Lecture Notes in Computer Science, 2008, , 114-134.	1.0	26
20	Rough Sets for Selection of Molecular Descriptors to Predict Biological Activity of Molecules. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2010, 40, 639-648.	3.3	26
21	RelSim: An integrated method to identify disease genes using gene expression profiles and PPIN based similarity measure. Information Sciences, 2017, 384, 110-125.	4.0	26
22	A simple skull stripping algorithm for brain MRI. , 2015, , .		25
23	Rough-probabilistic clustering and hidden Markov random field model for segmentation of HEp-2 cell and brain MR images. Applied Soft Computing Journal, 2016, 46, 558-576.	4.1	25
24	Rough-Fuzzy Clustering and Unsupervised Feature Selection for Wavelet Based MR Image Segmentation. PLoS ONE, 2015, 10, e0123677.	1.1	24
25	FaRoC: Fast and Robust Supervised Canonical Correlation Analysis for Multimodal Omics Data. IEEE Transactions on Cybernetics, 2018, 48, 1229-1241.	6.2	23
26	Medical Image Segmentation by Partitioning Spatially Constrained Fuzzy Approximation Spaces. IEEE Transactions on Fuzzy Systems, 2020, 28, 965-977.	6.5	23
27	Non-uniform cellular automata based associative memory: Evolutionary design and basins of attraction. Information Sciences, 2008, 178, 2315-2336.	4.0	21
28	Fuzzy Cellular Automata for Modeling Pattern Classifier. IEICE Transactions on Information and Systems, 2005, E88-D, 691-702.	0.4	21
29	Efficient design of neural network tree using a new splitting criterion. Neurocomputing, 2008, 71, 787-800.	3.5	20
30	City block distance and rough-fuzzy clustering for identification of co-expressed microRNAs. Molecular BioSystems, 2014, 10, 1509-1523.	2.9	19
31	Error correcting capability of cellular automata based associative memory. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2003, 33, 466-480.	3.4	18
32	Rough Sets for Bias Field Correction in MR Images Using Contraharmonic Mean and Quantitative Index. IEEE Transactions on Medical Imaging, 2013, 32, 2140-2151.	5.4	18
33	GENERALIZED MULTIPLE ATTRACTOR CELLULAR AUTOMATA (GMACA) MODEL FOR ASSOCIATIVE MEMORY. International Journal of Pattern Recognition and Artificial Intelligence, 2002, 16, 781-795.	0.7	17
34	Multimodal Brain Tumor Segmentation Using Ensemble of Forest Method. Lecture Notes in Computer Science, 2018, , 159-168.	1.0	17
35	Approximate Graph Laplacians for Multimodal Data Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 798-813.	9.7	16
36	Robust Rough-Fuzzy C-Means Algorithm: Design and Applications in Coding and Non-coding RNA Expression Data Clustering. Fundamenta Informaticae, 2013, 124, 153-174.	0.3	15

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37	An automated method for counting and characterizing red blood cells using mathematical morphology. , 2015, , .		15
38	Cellular Automata Evolution for Pattern Classification. Lecture Notes in Computer Science, 2004, , 660-669.	1.0	15
39	Multi-Manifold Optimization for Multi-View Subspace Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3895-3907.	7.2	14
40	Spatially Constrained Student's t-Distribution Based Mixture Model for Robust Image Segmentation. Journal of Mathematical Imaging and Vision, 2018, 60, 355-381.	0.8	13
41	HEM for identification of differentially expressed miRNAs using hypercuboid equivalence partition matrix. BMC Bioinformatics, 2013, 14, 266.	1.2	12
42	FMACA: A Fuzzy Cellular Automata Based Pattern Classifier. Lecture Notes in Computer Science, 2004, , 494-505.	1.0	11
43	Multimodal Omics Data Integration Using Max Relevance–Max Significance Criterion. IEEE Transactions on Biomedical Engineering, 2017, 64, 1841-1851.	2.5	11
44	An accurate and robust skull stripping method for 3-D magnetic resonance brain images. Magnetic Resonance Imaging, 2018, 54, 46-57.	1.0	11
45	Rough Hypercuboid Based Generalized and Robust IT2 Fuzzy C-Means Algorithm. IEEE Transactions on Cybernetics, 2021, 51, 3641-3652.	6.2	11
46	Segmentation of bias field induced brain MR images using rough sets and stopped-t distribution. Information Sciences, 2019, 504, 520-545.	4.0	11
47	Microarray Time-Series Data Clustering Using Rough-Fuzzy C-Means Algorithm. , 2011, , .		10
48	Gene expression and protein–protein interaction data for identification of colon cancer related genes using f-information measures. Natural Computing, 2016, 15, 449-463.	1.8	10
49	Rough segmentation of coherent local intensity for bias induced 3-D MR brain images. Pattern Recognition, 2020, 97, 106997.	5.1	10
50	Circular Clustering in Fuzzy Approximation Spaces for Color Normalization of Histological Images. IEEE Transactions on Medical Imaging, 2020, 39, 1735-1745.	5.4	10
51	Cellular Automata Machine for Pattern Recognition. Lecture Notes in Computer Science, 2002, , 270-281.	1.0	9
52	Significance and Functional Similarity for Identification of Disease Genes. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1419-1433.	1.9	8
53	A Spatially Constrained Probabilistic Model for Robust Image Segmentation. IEEE Transactions on Image Processing, 2020, 29, 4898-4910.	6.0	8
54	Rough set based gene selection algorithm for microarray sample classification. , 2010, , .		7

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55	Scalable Pattern Recognition Algorithms. , 2014, , .		7
56	Evolving Cellular Automata Based Associative Memory for Pattern Recognition. Lecture Notes in Computer Science, 2001, , 115-124.	1.0	6
57	SoBT-RFW: Rough-Fuzzy Computing and Wavelet Analysis Based Automatic Brain Tumor Detection Method from MR Images*. Fundamenta Informaticae, 2015, 142, 237-267.	0.3	6
58	Stomped- t : A novel probability distribution for rough-probabilistic clustering. Information Sciences, 2017, 421, 104-125.	4.0	6
59	Rough-Fuzzy Circular Clustering for Color Normalization of Histological Images. Fundamenta Informaticae, 2019, 164, 103-117.	0.3	6
60	Characterization of Non-linear Cellular Automata Model for Pattern Recognition. Lecture Notes in Computer Science, 2002, , 214-220.	1.0	5
61	A pipeline architecture for Encompression (encryption + compression) technology. , 0, , .		5
62	Protein sequence analysis using relational soft clustering algorithms. International Journal of Computer Mathematics, 2007, 84, 599-617.	1.0	5
63	Robust RFCM algorithm for identification of co-expressed miRNAs. , 2012, , .		5
64	Gene ontology based quantitative index to select functionally diverse genes. International Journal of Machine Learning and Cybernetics, 2014, 5, 245-262.	2.3	5
65	Rough-fuzzy segmentation of HEp-2 cell indirect immunofluorescence images. International Journal of Data Mining and Bioinformatics, 2017, 17, 311.	0.1	5
66	An Efficient Method for Automatic Recognition of Virus Particles in TEM Images. Lecture Notes in Computer Science, 2019, , 21-31.	1.0	5
67	City Block Distance for Identification of Co-expressed MicroRNAs. Lecture Notes in Computer Science, 2013, , 387-396.	1.0	5
68	A Novel Biclustering Algorithm for Discovering Value-Coherent Overlapping $\hat{\lambda}$ -Biclusters. , 2008, , .		4
69	Possibilistic biclustering algorithm for discovering value-coherent overlapping $\hat{\lambda}$ -biclusters. International Journal of Machine Learning and Cybernetics, 2015, 6, 95-107.	2.3	4
70	Rough Hypercuboid Based Supervised Regularized Canonical Correlation for Multimodal Data Analysis*. Fundamenta Informaticae, 2016, 148, 133-155.	0.3	4
71	A modified rough-fuzzy clustering algorithm with spatial information for HEp-2 cell image segmentation. , 2016, , .		4
72	Cellular Automata Evolution for Distributed Data Mining. Lecture Notes in Computer Science, 2004, , 40-49.	1.0	4

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73	Contra-harmonic Mean Based Bias Field Correction in MR Images. Lecture Notes in Computer Science, 2013, , 523-530.	1.0	4
74	Deformation Correction in Brain MRI Using Mutual Information and Genetic Algorithm. , 2007, , .		3
75	Efficient Design of Bio-Basis Function to Predict Protein Functional Sites Using Kernel-Based Classifiers. IEEE Transactions on Nanobioscience, 2010, 9, 242-249.	2.2	3
76	Fuzzy Discretization for Rough Set Based Gene Selection Algorithm. , 2011, , .		3
77	Rough sets and support vector machine for selecting differentially expressed miRNAs. , 2012, , .		3
78	Rough sets for in silico identification of differentially expressed miRNAs. International Journal of Nanomedicine, 2013, 8 Suppl 1, 63.	3.3	3
79	A New Post-processing Method to Detect Brain Tumor Using Rough-Fuzzy Clustering. Lecture Notes in Computer Science, 2015, , 407-417.	1.0	3
80	Low-Rank Joint Subspace Construction for Cancer Subtype Discovery. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 17, 1-1.	1.9	3
81	Selection of relevant texture descriptors for recognition of HEp-2 cell staining patterns. International Journal of Machine Learning and Cybernetics, 2020, 11, 2127-2147.	2.3	3
82	Rough Sets for Finite Mixture Model Based HEp-2 Cell Segmentation. Lecture Notes in Computer Science, 2015, , 459-469.	1.0	3
83	Rough-Fuzzy C-Means for Clustering Microarray Gene Expression Data. Lecture Notes in Computer Science, 2012, , 203-210.	1.0	3
84	Simultaneous Feature Selection and Extraction Using Fuzzy Rough Sets. Advances in Intelligent Systems and Computing, 2014, , 115-123.	0.5	3
85	Rough Sets for Insilico Identification of Differentially Expressed miRNAs. , 2014, , 171-193.		3
86	Protein Functional Sites Prediction Using Modified Bio-Basis Function and Quantitative Indices. IEEE Transactions on Nanobioscience, 2010, 9, 250-257.	2.2	2
87	Fuzzy Measures and Weighted Co-Occurrence Matrix for Segmentation of Brain MR Images. , 2014, , 277-297.		2
88	Preface: pattern recognition and mining. Natural Computing, 2016, 15, 355-357.	1.8	2
89	Recent advances in multimodal big data analysis for cancer diagnosis. CSI Transactions on ICT, 2019, 7, 227-231.	0.7	2
90	Scalable Non-Linear Graph Fusion for Prioritizing Cancer-Causing Genes. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2020, PP, 1-1.	1.9	2

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91	Multispectral co-occurrence of wavelet coefficients for malignancy assessment of brain tumors. PLoS ONE, 2021, 16, e0250964.	1.1	2
92	Neural Network Tree for Identification of Splice Junction and Protein Coding Region in DNA. , 2014, , 45-66.		2
93	Synthesis of Non-uniform Cellular Automata Having only Point Attractors. Lecture Notes in Computer Science, 2014, , 105-114.	1.0	2
94	Advances in Rough Set Based Hybrid Approaches for Medical Image Analysis. Lecture Notes in Computer Science, 2017, , 25-33.	1.0	2
95	Cellular automata in protein coding region identification. , 0, , .		1
96	Fault Diagnosis of Electronic Circuits Using Cellular Automata Based Pattern Classifier. , 2008, , 225-246.		1
97	Supervised gene clustering for extraction of discriminative features from microarray data. , 2010, , .		1
98	Identification of Disease Genes Using Gene Expression and Proteinâ€“Protein Interaction Data. , 2014, , 155-170.		1
99	A New Similarity Measure for Identification of Disease Genes. Lecture Notes in Computer Science, 2015, , 451-461.	1.0	1
100	Fundamentals of Rough-Fuzzy Clustering and Its Application in Bioinformatics. , 2017, , 513-543.		1
101	Rough Hypercuboid and Modified Kulczynski Coefficient for Disease Gene Identification. Lecture Notes in Computer Science, 2017, , 465-474.	1.0	1
102	CanSuR: a robust method for staining pattern recognition of HEp-2 cell IIF images. Neural Computing and Applications, 2020, 32, 16471-16489.	3.2	1
103	Selective Update of Relevant Eigenspaces for Integrative Clustering of Multimodal Data. IEEE Transactions on Cybernetics, 2022, 52, 947-959.	6.2	1
104	Rough-Bayesian approach to select class-pair specific descriptors for HEp-2 cell staining pattern recognition. Pattern Recognition, 2021, 117, 107982.	5.1	1
105	Regularization and Shrinkage in Rough Set Based Canonical Correlation Analysis. Lecture Notes in Computer Science, 2017, , 432-446.	1.0	1
106	Fuzzy-Rough MRMS Method for Relevant and Significant Attribute Selection. Communications in Computer and Information Science, 2012, , 310-320.	0.4	1
107	Rough-Fuzzy Hybridization for Protein Sequence Analysis. Statistical Science and Interdisciplinary Research, 2008, , 243-275.	0.0	1
108	Rough Set Based Homogeneous Unsharp Masking for Bias Field Correction in MRI. Lecture Notes in Computer Science, 2013, , 542-551.	1.0	1

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109	Rough Set-Based Feature Selection: Criteria of Max-Dependency, Max-Relevance, and Max-Significance. Intelligent Systems Reference Library, 2013, , 393-418.	1.0	1
110	Grouping Functionally Similar Genes From Microarray Data Using Rough Fuzzy Clustering. , 2014, , 197-224.		1
111	A New Rough-Fuzzy Clustering Algorithm and its Applications. Advances in Intelligent Systems and Computing, 2014, , 1245-1251.	0.5	1
112	Rough-Fuzzy Relational Clustering Algorithm for Biological Sequence Mining. , 2008, , 292-299.		1
113	Multiview Regularized Discriminant Canonical Correlation Analysis: Sequential Extraction of Relevant Features From Multiblock Data. IEEE Transactions on Cybernetics, 2023, 53, 5497-5509.	6.2	1
114	Knowledge Discovery in Distributed Biological Datasets Using Fuzzy Cellular Automata. , 2005, , .		0
115	Basins of Attraction of Cellular Automata Based Associative Memory and Its Rule Space. , 2005, , .		0
116	Embedded genetic algorithm for multiobjective optimization problem. , 0, , .		0
117	Fuzzy cellular automata based associative memory for pattern recognition. , 0, , .		0
118	Prediction of Protein Functional Sites Using Novel String Kernels. , 2008, , .		0
119	Simultaneous Feature Selection and Extraction Using Feature Significance. Fundamenta Informaticae, 2015, 136, 405-431.	0.3	0
120	Clustering of microRNAs Using Rough Hypercuboid Based Fuzzy C-Means. , 2016, , .		0
121	Principal Subspace Updation for Integrative Clustering of Multimodal Omics Data. , 2017, , .		0
122	Identification of Co-expressed microRNAs Using Rough Hypercuboid-Based Interval Type-2 Fuzzy C-Means Algorithm. Advances in Intelligent Systems and Computing, 2018, , 47-57.	0.5	0
123	Staining Pattern Recognition Of HEp-2 Cell Images Using Supervised Canonical Correlation Analysis. , 2018, , .		0
124	Rough Sets and Local Texture Features for Diagnosis of Connective Tissue Disorders. Lecture Notes in Computer Science, 2019, , 465-479.	1.0	0
125	Rough-Fuzzy Segmentation of Brain MR Volumes: Applications in Tumor Detection and Malignancy Assessment. Lecture Notes in Computer Science, 2021, , 35-43.	1.0	0
126	Cellular Automata Based Pattern Classifying Machine for Distributed Data Mining. Lecture Notes in Computer Science, 2004, , 848-853.	1.0	0

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127	Rough Sets for Selection of Functionally Diverse Genes from Microarray Data. Lecture Notes in Computer Science, 2011, , 477-484.	1.0	0
128	Rough-Fuzzy Clustering and M-Band Wavelet Packet for Text-Graphics Segmentation. Lecture Notes in Computer Science, 2013, , 530-538.	1.0	0
129	f-Information Measures for Selection of Discriminative Genes from Microarray Data. , 2014, , 131-153.		0
130	Design of String Kernel to Predict Protein Functional Sites Using Kernel-Based Classifiers. , 2014, , 67-101.		0
131	Rough Sets for Selection of Molecular Descriptors to Predict Biological Activity of Molecules. , 2014, , 105-129.		0
132	Possibilistic Biclustering for Discovering Value-Coherent Overlapping δ -Biclusters. , 2014, , 253-276.		0
133	Mutual Information Based Supervised Attribute Clustering for Microarray Sample Classification. , 2014, , 225-252.		0
134	A New Method to Address Singularity Problem in Multimodal Data Analysis. Lecture Notes in Computer Science, 2017, , 43-51.	1.0	0
135	Rough-fuzzy segmentation of HEP-2 cell indirect immunofluorescence images. International Journal of Data Mining and Bioinformatics, 2017, 17, 311.	0.1	0
136	Relevant and Non-Redundant Amino Acid Sequence Selection for Protein Functional Site Identification. , 0, , 139-164.		0
137	Adaptive Generalized Multi-View Canonical Correlation Analysis for Incrementally Update Multiblock Data. IEEE Transactions on Knowledge and Data Engineering, 2022, , 1-14.	4.0	0