

Nikhil R Pal

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

5,849

citations

33

h-index

76

g-index

90

ext. papers

6,984

ext. citations

5.1

avg, IF

5.88

L-index

#	Paper	IF	Citations
88	A review on image segmentation techniques. <i>Pattern Recognition</i> , 1993 , 26, 1277-1294	7.7	2254
87	Fuzzy Models and Algorithms for Pattern Recognition and Image Processing. <i>The Handbooks of Fuzzy Sets Series</i> , 1999 ,		562
86	Entropic thresholding. <i>Signal Processing</i> , 1989 , 16, 97-108	4.4	237
85	Genetic programming for simultaneous feature selection and classifier design. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2006 , 36, 106-17		216
84	Fuzzy Kohonen clustering networks. <i>Pattern Recognition</i> , 1994 , 27, 757-764	7.7	211
83	Some new information measures for fuzzy sets. <i>Information Sciences</i> , 1993 , 67, 209-228	7.7	204
82	A self-tuning fuzzy PI controller. <i>Fuzzy Sets and Systems</i> , 2000 , 115, 327-338	3.7	118
81	A neuro-fuzzy scheme for simultaneous feature selection and fuzzy rule-based classification. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 110-23		108
80	On minimum cross-entropy thresholding. <i>Pattern Recognition</i> , 1996 , 29, 575-580	7.7	106
79	A Multiobjective Genetic Programming-Based Ensemble for Simultaneous Feature Selection and Classification. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 499-510	10.2	95
78	QUANTIFICATION OF CONFLICT IN DEMPSTER-SHAFER FRAMEWORK: A NEW APPROACH. <i>International Journal of General Systems</i> , 1996 , 24, 407-423	2.1	81
77	. <i>IEEE Transactions on Fuzzy Systems</i> , 2015 , 23, 444-456	8.3	80
76	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2013 , 43, 587-605	7.3	68
75	Feature analysis: Neural network and fuzzy set theoretic approaches. <i>Pattern Recognition</i> , 1997 , 30, 1579-1590	7.7	66
74	Uncertainty measures for evidential reasoning I: A review. <i>International Journal of Approximate Reasoning</i> , 1992 , 7, 165-183	3.6	66
73	ASMiGA: an archive-based steady-state micro genetic algorithm. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 40-52	10.2	65
72	Uncertainty measures for evidential reasoning II: A new measure of total uncertainty. <i>International Journal of Approximate Reasoning</i> , 1993 , 8, 1-16	3.6	64

71	A Mutually Recurrent Interval Type-2 Neural Fuzzy System (MRIT2NFS) With Self-Evolving Structure and Parameters. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 492-509	8.3	62
70	An Integrated Mechanism for Feature Selection and Fuzzy Rule Extraction for Classification. <i>IEEE Transactions on Fuzzy Systems</i> , 2012 , 20, 683-698	8.3	53
69	Feature selection with SVD entropy: Some modification and extension. <i>Information Sciences</i> , 2014 , 264, 118-134	7.7	50
68	Breast cancer detection using rank nearest neighbor classification rules. <i>Pattern Recognition</i> , 2003 , 36, 25-34	7.7	50
67	Mountain and subtractive clustering method: Improvements and generalizations. <i>International Journal of Intelligent Systems</i> , 2000 , 15, 329-341	8.4	50
66	Image thresholding: Some new techniques. <i>Signal Processing</i> , 1993 , 33, 139-158	4.4	49
65	An Interval Type-2 Neural Fuzzy System for Online System Identification and Feature Elimination. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 1442-55	10.3	44
64	Discovering biomarkers from gene expression data for predicting cancer subgroups using neural networks and relational fuzzy clustering. <i>BMC Bioinformatics</i> , 2007 , 8, 5	3.6	42
63	Imputation of missing data with neural networks for classification. <i>Knowledge-Based Systems</i> , 2019 , 182, 104838	7.3	40
62	Selecting useful groups of features in a connectionist framework. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 381-96		40
61	Fuzzy divergence, probability measure of fuzzy events and image thresholding. <i>Pattern Recognition Letters</i> , 1992 , 13, 857-867	4.7	40
60	Feature selection using a neural framework with controlled redundancy. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 35-50	10.3	39
59	A multi-stage neural network aided system for detection of microcalcifications in digitized mammograms. <i>Neurocomputing</i> , 2008 , 71, 2625-2634	5.4	39
58	Fuzzy Rule-Based Approach for Software Fault Prediction. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 826-837	7.3	36
57	Some properties of the exponential entropy. <i>Information Sciences</i> , 1992 , 66, 119-137	7.7	36
56	Simultaneous structure identification and fuzzy rule generation for Takagi-Sugeno models. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 1626-38		33
55	IMAGE MODEL, POISSON DISTRIBUTION AND OBJECT EXTRACTION. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1991 , 05, 459-483	1.1	29
54	On quantification of different facets of uncertainty. <i>Fuzzy Sets and Systems</i> , 1999 , 107, 81-91	3.7	25

53	Directed mutation in genetic algorithms. <i>Information Sciences</i> , 1994 , 79, 251-270	7.7	24
52	Self-crossover-a new genetic operator and its application to feature selection. <i>International Journal of Systems Science</i> , 1998 , 29, 207-212	2.3	23
51	A fast algorithm to compute precise type-2 centroids for real-time control applications. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 340-53	10.2	22
50	Design of vector quantizer for image compression using self-organizing feature map and surface fitting. <i>IEEE Transactions on Image Processing</i> , 2004 , 13, 1291-303	8.7	22
49	OBJECT BACKGROUND CLASSIFICATION USING HOPFIELD TYPE NEURAL NETWORK. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 1992 , 06, 989-1008	1.1	21
48	Unsupervised Feature Selection with Controlled Redundancy (UFeSCoR). <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 3390-3403	4.2	19
47	On rule pruning using fuzzy neural networks. <i>Fuzzy Sets and Systems</i> , 1999 , 106, 335-347	3.7	18
46	Discovery of protein phosphorylation motifs through exploratory data analysis. <i>PLoS ONE</i> , 2011 , 6, e20035	3.7	18
45	Identification of a small set of plasma signalling proteins using neural network for prediction of Alzheimer's disease. <i>Bioinformatics</i> , 2015 , 31, 2505-13	7.2	17
44	A note on fuzzy PI-type controllers with resetting action. <i>Fuzzy Sets and Systems</i> , 2001 , 121, 149-159	3.7	16
43	On object background classification. <i>International Journal of Systems Science</i> , 1992 , 23, 1903-1920	2.3	16
42	Segmentation based on measures of contrast, homogeneity, and region size. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1987 , 17, 857-868		16
41	Clustering of Mixed Data by Integrating Fuzzy, Probabilistic, and Collaborative Clustering Framework. <i>International Journal of Fuzzy Systems</i> , 2016 , 18, 339-348	3.6	16
40	Identification of amino acid propensities that are strong determinants of linear B-cell epitope using neural networks. <i>PLoS ONE</i> , 2012 , 7, e30617	3.7	15
39	A Self-Tuning Fuzzy PD Controller. <i>IETE Journal of Research</i> , 1998 , 44, 177-189	0.9	15
38	Evolutionary Methods for Unsupervised Feature Selection Using Sammon's Stress Function. <i>Fuzzy Information and Engineering</i> , 2010 , 2, 229-247	0.5	14
37	Local Divergences for Atanassov Intuitionistic Fuzzy Sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 360-373	8.3	12
36	Entropy measures for Atanassov intuitionistic fuzzy sets based on divergence. <i>Soft Computing</i> , 2018 , 22, 5051-5071	3.5	12

35	A neuro-fuzzy framework for inferencing. <i>Neural Networks</i> , 2002 , 15, 247-61	9.1	11
34	Quantifying Different Facets of Fuzzy Uncertainty. <i>The Handbooks of Fuzzy Sets Series</i> , 2000 , 459-480		11
33	A multistage generalization of the rank nearest neighbor classification rule. <i>Pattern Recognition Letters</i> , 1995 , 16, 601-614	4.7	11
32	Sensor (group feature) selection with controlled redundancy in a connectionist framework. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450021	6.2	10
31	On hierarchical segmentation for image compression. <i>Pattern Recognition Letters</i> , 2000 , 21, 131-144	4.7	10
30	A Polak-Ribière-Polyak Conjugate Gradient-Based Neuro-Fuzzy Network and its Convergence. <i>IEEE Access</i> , 2018 , 6, 41551-41565	3.5	9
29	Identification of single- and multiple-class specific signature genes from gene expression profiles by group marker index. <i>PLoS ONE</i> , 2011 , 6, e24259	3.7	9
28	A fuzzy rule based approach to identify biomarkers for diagnostic classification of cancers. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		9
27	Feature Selection Using a Neural Network With Group Lasso Regularization and Controlled Redundancy. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1110-1123	10.3	9
26	Structural building blocks: construction of protein 3-D structures using a structural variant of mountain clustering method. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009 , 28, 38-44		8
25	How to make a neural network say Don't know. <i>Information Sciences</i> , 2018 , 430-431, 444-466	7.7	8
24	Robust Multiobjective Optimization With Robust Consensus. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3743-3754	8.3	8
23	Genetic Programming for Classification and Feature Selection. <i>Studies in Computational Intelligence</i> , 2019 , 119-141	0.8	6
22	Relational mountain (density) clustering method and web log analysis. <i>International Journal of Intelligent Systems</i> , 2005 , 20, 375-392	8.4	6
21	Soft Computing: Goal, Tools and Feasibility. <i>IETE Journal of Research</i> , 1996 , 42, 195-204	0.9	6
20	Redundancy-Constrained feature selection with radial basis function networks 2012 ,		5
19	Evolution of Fuzzy Classifiers Using Genetic Programming. <i>Fuzzy Information and Engineering</i> , 2012 , 4, 29-49	0.5	4
18	A neuro-fuzzy system for inferencing. <i>International Journal of Intelligent Systems</i> , 1999 , 14, 1155-1182	8.4	4

17	Can edges help convolution neural networks in emotion recognition?. <i>Neurocomputing</i> , 2021 , 433, 162-168	1.6	4
16	Fast codebook searching in a SOM-based vector quantizer for image compression. <i>Signal, Image and Video Processing</i> , 2008 , 2, 39-49	1.6	3
15	Finding Synergy Networks From Gene Expression Data: A Fuzzy-Rule-Based Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 1488-1499	8.3	3
14	Feature Extraction and Selection for Parsimonious Classifiers With Multiobjective Genetic Programming. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 1-1	15.6	2
13	Prediction of Mammalian microRNA binding sites using Random Forests 2012 ,		2
12	Incremental Mountain Clustering Method to find building blocks for constructing structures of proteins. <i>IEEE Transactions on Nanobioscience</i> , 2010 , 9, 278-88	3.4	2
11	In Search of Trustworthy and Transparent Intelligent Systems With Human-Like Cognitive and Reasoning Capabilities. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 76	2.8	1
10	Random Thoughts: "Comprehensible & Sustainable" Computational Intelligence [President's Message]. <i>IEEE Computational Intelligence Magazine</i> , 2018 , 13, 3-4	5.6	1
9	Finding short structural motifs for re-construction of proteins 3D structure. <i>Applied Soft Computing Journal</i> , 2013 , 13, 1214-1221	7.5	1
8	Classification of incomplete data integrating neural networks and evidential reasoning. <i>Neural Computing and Applications</i> , 1	4.8	1
7	Designing Rule-Based Classifiers with On-Line Feature Selection: A Neuro-fuzzy Approach. <i>Lecture Notes in Computer Science</i> , 2002 , 251-259	0.9	0
6	Sensitivity analysis of TakagiBugeno fuzzy neural network. <i>Information Sciences</i> , 2022 , 582, 725-749	7.7	0
5	Unsupervised feature selection via adaptive autoencoder with redundancy control.. <i>Neural Networks</i> , 2022 , 150, 87-101	9.1	0
4	METRIC STRUCTURES ON POSSIBILITY DISTRIBUTIONS. <i>International Journal of General Systems</i> , 1997 , 25, 389-398	2.1	
3	Image Processing and Computer Vision. <i>The Handbooks of Fuzzy Sets Series</i> , 1999 , 547-678		
2	Neural Computing: An Introduction and Some Applications. <i>IETE Journal of Education Online</i> , 1994 , 35, 105-125	0.3	
1	Self-Crossover and Its Application to the Traveling Salesman Problem. <i>Lecture Notes in Computer Science</i> , 1999 , 326-332	0.9	