

# Jayadeva

## 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.

67

papers

1,665

citations

15

h-index

40

g-index

81

ext. papers

2,017

ext. citations

4.3

avg, IF

4.9

L-index

#	Paper	IF	Citations
67	Twin Support Vector Machines for pattern classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 905-10	13.3	893
66	Twin SVM for gesture classification using the surface electromyogram. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 301-8		95
65	Optimal kernel selection in twin support vector machines. <i>Optimization Letters</i> , <b>2009</b> , 3, 77-88	1.1	85
64	Regularized least squares fuzzy support vector regression for financial time series forecasting. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 132-138	7.8	75
63	High performance EEG signal classification using classifiability and the Twin SVM. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 30, 305-318	7.5	49
62	Fast and robust learning through fuzzy linear proximal support vector machines. <i>Neurocomputing</i> , <b>2004</b> , 61, 401-411	5.4	41
61	Discovery of rare cells from voluminous single cell expression data. <i>Nature Communications</i> , <b>2018</b> , 9, 4719	17.4	39
60	Knowledge based proximal support vector machines. <i>European Journal of Operational Research</i> , <b>2009</b> , 195, 914-923	5.6	32
59	Reduced twin support vector regression. <i>Neurocomputing</i> , <b>2011</b> , 74, 1474-1477	5.4	32
58	Regularized least squares support vector regression for the simultaneous learning of a function and its derivatives. <i>Information Sciences</i> , <b>2008</b> , 178, 3402-3414	7.7	28
57	Learning a hyperplane classifier by minimizing an exact bound on the VC dimension. <i>Neurocomputing</i> , <b>2015</b> , 149, 683-689	5.4	23
56	Deep learning aided rational design of oxide glasses. <i>Materials Horizons</i> , <b>2020</b> , 7, 1819-1827	14.4	21
55	Fuzzy multi-category proximal support vector classification via generalized eigenvalues. <i>Soft Computing</i> , <b>2007</b> , 11, 679-685	3.5	21
54	Ants find the shortest path: a mathematical proof. <i>Swarm Intelligence</i> , <b>2013</b> , 7, 43-62	3	17
53	Performance of neural networks for predicting yarn properties using principal component analysis. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 1746-1751	2.9	17
52	Twin Neural Networks for the classification of large unbalanced datasets. <i>Neurocomputing</i> , <b>2019</b> , 343, 34-49	5.4	15
51	A neural network with $O(N)$ neurons for ranking $N$ numbers in $O(1/N)$ time. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2004</b> , 51, 2044-2051		14

50	Using Sequential Unconstrained Minimization Techniques to simplify SVM solvers. <i>Neurocomputing</i> , <b>2012</b> , 77, 253-260	5.4	13
49	Learning the optimal kernel for Fisher discriminant analysis via second order cone programming. <i>European Journal of Operational Research</i> , <b>2010</b> , 203, 692-697	5.6	13
48	EigenSample: A non-iterative technique for adding samples to small datasets. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 70, 1064-1077	7.5	11
47	Learning a hyperplane regressor through a tight bound on the VC dimension. <i>Neurocomputing</i> , <b>2016</b> , 171, 1610-1616	5.4	11
46	Hybrid independent component analysis and twin support vector machine learning scheme for subtle gesture recognition. <i>Biomedizinische Technik</i> , <b>2010</b> , 55, 301-7	1.3	11
45	Fuzzy Twin Support Vector Machines for Pattern Classification. <i>Statistical Science and Interdisciplinary Research</i> , <b>2008</b> , 131-142		9
44	Twin Support Vector Machines. <i>Studies in Computational Intelligence</i> , <b>2017</b> ,	0.8	8
43	A Study on the Capability of a Neural Network Ranking Fibre Parameters Having an Influence on Yarn Properties. <i>Journal of the Textile Institute</i> , <b>2003</b> , 94, 186-193	1.5	8
42	Large-Scale Minimal Complexity Machines Using Explicit Feature Maps. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 2653-2662	7.3	7
41	Trail formation in ants. A generalized Polya urn process. <i>Swarm Intelligence</i> , <b>2010</b> , 4, 145-171	3	7
40	Improved sEMG signal classification using the Twin SVM <b>2016</b> ,		7
39	Twin Neural Networks for Efficient EEG Signal Classification <b>2018</b> ,		7
38	Sparse short-term time series forecasting models via minimum model complexity. <i>Neurocomputing</i> , <b>2017</b> , 243, 1-11	5.4	6
37	Benchmarking NLOpt and state-of-the-art algorithms for continuous global optimization via IACOR. <i>Swarm and Evolutionary Computation</i> , <b>2016</b> , 27, 116-131	9.8	6
36	Optimization with neural networks: a recipe for improving convergence and solution quality. <i>Biological Cybernetics</i> , <b>1992</b> , 67, 445-449	2.8	5
35	Fuzzy Proximal Support Vector Classification Via Generalized Eigenvalues. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 360-363	0.9	5
34	QMCM: Minimizing Vapnik's bound on the VC dimension. <i>Neurocomputing</i> , <b>2020</b> , 399, 352-360	5.4	4
33	A neural network for the Steiner minimal tree problem. <i>Biological Cybernetics</i> , <b>1994</b> , 70, 485-494	2.8	4

32	A novel digital neural network for the travelling salesman problem		3
31	Molecular signature comprising 11 platelet-genes enables accurate blood-based diagnosis of NSCLC. <i>BMC Genomics</i> , <b>2020</b> , 21, 744	4.5	2
30	TWSVM for Unsupervised and Semi-supervised Learning. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 125-152	0.8	2
29	<b>2015</b> ,		2
28	Regularized Least Squares Twin SVR for the Simultaneous Learning of a Function and its Derivative <b>2006</b> ,		2
27	Binary classification by SVM based tree type neural networks		2
26	Neurodynamical classifiers with low model complexity. <i>Neural Networks</i> , <b>2020</b> , 132, 405-415	9.1	2
25	The Twin SVM Minimizes the Total Risk <b>2017</b> , 395-405		1
24	Ultra-Sparse Classifiers Through Minimizing the VC Dimension in the Empirical Feature Space. <i>Neural Processing Letters</i> , <b>2018</b> , 48, 881-913	2.4	1
23	Eigen-MM: EigenAnt Modified Mtsls1 for local search. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 43, 166-183	9.8	1
22	Convergence results for continuous-time dynamics arising in ant colony optimization. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 7031-7036		1
21	Zero Norm Least Squares Proximal SVR. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 38-43	0.9	1
20	Regularized Least Squares Fuzzy Support Vector Regression for Time Series Forecasting <b>2006</b> ,		1
19	Recurrent Neural Networks with Nonlinear Synapses for Solving Optimization Problems. <i>IETE Journal of Research</i> , <b>2003</b> , 49, 197-209	0.9	1
18	Block Sparse Variational Bayes Regression Using Matrix Variate Distributions With Application to SSVEP Detection. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , PP,	10.3	1
17	Linear time identification of local and global outliers. <i>Neurocomputing</i> , <b>2021</b> , 429, 141-150	5.4	1
16	Non-Mercer Large Scale Multiclass Least Squares Minimal Complexity Machines <b>2018</b> ,		1
15	Kernel optimization using conformal maps for the minimal complexity machine. <i>Engineering Applications of Artificial Intelligence</i> , <b>2021</b> , 106, 104493	7.2	0

14	Twin Support Vector Machines (TWSVM) for Classification. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 43-62	0.8	0
13	A neural network for the Steiner minimal tree problem. <i>Biological Cybernetics</i> , <b>1994</b> , 70, 485-494	2.8	0
12	Design Optimization. <i>IETE Journal of Research</i> , <b>2020</b> , 66, 731-732	0.9	
11	Applications Based on TWSVM. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 193-206	0.8	
10	TWSVR: Twin Support Vector Machine Based Regression. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 63-101	0.8	
9	Incremental Twin Support Vector Machines. <i>Statistical Science and Interdisciplinary Research</i> , <b>2009</b> , 263-272		
8	Linear potential proximal support vector machines for pattern classification. <i>Optimization Methods and Software</i> , <b>2008</b> , 23, 491-500	1.3	
7	Relations Between Hopfield-Type Continuous Networks and Discrete-Time Binary Networks. <i>IETE Journal of Research</i> , <b>1996</b> , 42, 215-221	0.9	
6	ENEAD-An Efficient Neural-Based Analog-to-Digital Converter. <i>IETE Journal of Research</i> , <b>1992</b> , 38, 59-61	0.9	
5	GENESIS: A Standard Cell Based VLSI Design System. <i>IETE Journal of Research</i> , <b>1990</b> , 36, 259-264	0.9	
4	Variants of Twin Support Vector Machines: Some More Formulations. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 103-123	0.8	
3	Some Additional Topics. <i>Studies in Computational Intelligence</i> , <b>2017</b> , 153-192	0.8	
2	Sparsity in function and derivative approximation via the empirical feature space. <i>Information Sciences</i> , <b>2020</b> , 512, 402-415	7.7	
1	Minimal Complexity Machines Under Weight Quantization. <i>IEEE Transactions on Computers</i> , <b>2021</b> , 70, 1189-1198	2.5	