

Shigeo Abe

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.

128
papers

2,054
citations

21
h-index

43
g-index

145
ext. papers

2,506
ext. citations

1.8
avg, IF

5.28
L-index

#	Paper	IF	Citations
128	Support Vector Machines for Pattern Classification. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 ,	1.1	209
127	. <i>IEEE Transactions on Fuzzy Systems</i> , 1995 , 3, 18-28	8.3	188
126	Fuzzy least squares support vector machines for multiclass problems. <i>Neural Networks</i> , 2003 , 16, 785-929.	9.1	152
125	A fuzzy classifier with ellipsoidal regions. <i>IEEE Transactions on Fuzzy Systems</i> , 1997 , 5, 358-368	8.3	115
124	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1995 , 25, 119-129		113
123	Incremental learning of feature space and classifier for face recognition. <i>Neural Networks</i> , 2005 , 18, 575-584	9.4	87
122	Calculation of Energy Losses in a Distribution System. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1980 , PAS-99, 1347-1356		72
121	Power System Voltage Stability. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1982 , PAS-101, 3830-3840		68
120	Fuzzy support vector machines for multilabel classification. <i>Pattern Recognition</i> , 2015 , 48, 2110-2117	7.7	56
119	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1995 , 25, 353-361		55
118	Pattern Classification 2001 ,		55
117	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1993 , 40, 246-257		51
116	Decision-tree-based multiclass support vector machines		45
115	Function approximation based on fuzzy rules extracted from partitioned numerical data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 525-34		44
114	A novel approach to feature selection based on analysis of class regions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1997 , 27, 196-207		39
113	Solving inequality constrained combinatorial optimization problems by the hopfield neural networks. <i>Neural Networks</i> , 1992 , 5, 663-670	9.1	39
112	1989 ,		39

111	Incremental training of support vector machines using hyperspheres. <i>Pattern Recognition Letters</i> , 2006 , 27, 1495-1507	4.7	35
110	Sparse least squares support vector training in the reduced empirical feature space. <i>Pattern Analysis and Applications</i> , 2007 , 10, 203-214	2.3	31
109	Load Flow Convergence in the Vicinity of a Voltage Stability Limit. <i>IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee</i> , 1978 , PAS-97, 1983-1993		29
108	Input layer optimization of neural networks by sensitivity analysis and its application to recognition of numerals. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1991 , 111, 130-138	0.4	22
107	Fusing sequential minimal optimization and Newton's method for support vector training. <i>International Journal of Machine Learning and Cybernetics</i> , 2016 , 7, 345-364	3.8	21
106	Tuning of a fuzzy classifier derived from data. <i>International Journal of Approximate Reasoning</i> , 1996 , 14, 1-24	3.6	21
105	Neural Networks and Fuzzy Systems 1997 ,		20
104	A fuzzy classifier with ellipsoidal regions for diagnosis problems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1999 , 29, 140-148		18
103	Decomposition techniques for training linear programming support vector machines. <i>Neurocomputing</i> , 2009 , 72, 973-984	5.4	17
102	Dynamic cluster generation for a fuzzy classifier with ellipsoidal regions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1998 , 28, 869-76		16
101	Comparison between error correcting output codes and fuzzy support vector machines. <i>Pattern Recognition Letters</i> , 2005 , 26, 1937-1945	4.7	16
100	Fuzzy function approximators with ellipsoidal regions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 654-61		16
99	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 1995 , 42, 39-45		16
98	Feature Selection and Extraction. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 331-341	1.1	15
97	Training of Support Vector Machines with Mahalanobis Kernels. <i>Lecture Notes in Computer Science</i> , 2005 , 571-576	0.9	14
96	Determination of power system voltage stability. Part I: Theory. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1976 , 96, 70-77	0.4	14
95	KPCA-based training of a kernel fuzzy classifier with ellipsoidal regions. <i>International Journal of Approximate Reasoning</i> , 2004 , 37, 189-217	3.6	13
94	Fast Training of Support Vector Machines by Extracting Boundary Data. <i>Lecture Notes in Computer Science</i> , 2001 , 308-313	0.9	12

93	Unconstrained large margin distribution machines. <i>Pattern Recognition Letters</i> , 2017 , 98, 96-102	4.7	11
92	Feature selection by analyzing class regions approximated by ellipsoids. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1998 , 28, 282-287		11
91	Analysis of support vector machines		10
90	Convergence acceleration of the Hopfield neural network by optimizing integration step sizes. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1996 , 26, 194-201		10
89	Subspace-based support vector machines for pattern classification. <i>Neural Networks</i> , 2009 , 22, 558-67	9.1	9
88	Kernel discriminant analysis based feature selection. <i>Neurocomputing</i> , 2008 , 71, 2544-2552	5.4	9
87	Extracting algorithms from pattern classification neural networks. <i>Neural Networks</i> , 1993 , 6, 729-735	9.1	9
86	An Incremental Learning Algorithm of Ensemble Classifier Systems 2006 ,		8
85	. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		8
84	Tuning membership functions of kernel fuzzy classifiers by maximizing margins. <i>Memetic Computing</i> , 2009 , 1, 221-228	3.4	7
83	Backward Variable Selection of Support Vector Regressors by Block Deletion. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		7
82	Why pairwise is better than one-against-all or all-at-once		7
81	Incremental learning for online face recognition		7
80	High performance integrated Prolog processor IPP 1987 ,		7
79	Sparse Least Squares Support Vector Regressors Trained in the Reduced Empirical Feature Space. <i>Lecture Notes in Computer Science</i> , 2007 , 527-536	0.9	7
78	A Fast Incremental Kernel Principal Component Analysis for Online Feature Extraction. <i>Lecture Notes in Computer Science</i> , 2010 , 487-497	0.9	7
77	A reinforcement learning algorithm for neural networks with incremental learning ability 2002 ,		6
76	Support Vector Regression Using Mahalanobis Kernels. <i>Lecture Notes in Computer Science</i> , 2006 , 144-152.	0.9	6

75	Feature Extraction Using Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2010 , 108-115	0.9	6
74	Feature selection and fast training of subspace based support vector machines 2010 ,		5
73	Convergence of the Hopfield neural networks with inequality constraints 1990 ,		5
72	Feature Selection Based on Kernel Discriminant Analysis. <i>Lecture Notes in Computer Science</i> , 2006 , 282-291		5
71	Multiclass Support Vector Machines. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 113-161	1.1	5
70	Batch Support Vector Training Based on Exact Incremental Training. <i>Lecture Notes in Computer Science</i> , 2008 , 295-304	0.9	5
69	Robust function approximation using fuzzy rules with ellipsoidal regions 2000 ,		4
68	A genetic algorithm approach to multi-objective scheduling problems with earliness and tardiness penalties		4
67	Two-Class Support Vector Machines. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 21-112	1.1	4
66	Variants of Support Vector Machines. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 163-226	1.1	4
65	Is Primal Better Than Dual. <i>Lecture Notes in Computer Science</i> , 2009 , 854-863	0.9	4
64	Fast Variable Selection by Block Addition and Block Deletion. <i>Journal of Intelligent Learning Systems and Applications</i> , 2010 , 02, 200-211	0.7	4
63	Fast Training of Linear Programming Support Vector Machines Using Decomposition Techniques. <i>Lecture Notes in Computer Science</i> , 2006 , 165-176	0.9	4
62	Optimizing working sets for training support vector regressors by Newton's method 2015 ,		3
61	Subspace based least squares support vector machines for pattern classification 2009 ,		3
60	Maximizing margins of multilayer neural networks		3
59	Initial value selection of load flow calculations in the vicinity of a voltage stability limit. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1977 , 97, 60-69	0.4	3
58	Incremental Training of Support Vector Machines Using Truncated Hypercones. <i>Lecture Notes in Computer Science</i> , 2006 , 153-164	0.9	3

57	Sparse Least Squares Support Vector Machines by Forward Selection Based on Linear Discriminant Analysis. <i>Lecture Notes in Computer Science</i> , 2008 , 54-65	0.9	3
56	Fuzzy Classifiers Based on Kernel Discriminant Analysis. <i>Lecture Notes in Computer Science</i> , 2007 , 180-189	0.9	3
55	Analyzing Minimal Complexity Machines 2019 ,		3
54	Convergence improvement of active set support vector training 2010 ,		2
53	Subspace based linear programming support vector machines 2009 ,		2
52	Sparse support vector regressors based on forward basis selection 2009 ,		2
51	Improved Parameter Tuning Algorithms for Fuzzy Classifiers. <i>Lecture Notes in Computer Science</i> , 2009 , 937-944	0.9	2
50	Boosting Kernel Discriminant Analysis with Adaptive Kernel Selection 2005 , 429-432		2
49	Extraction of Fuzzy Rules for Classification Based on Partitioned Hyperboxes. <i>Journal of Intelligent and Fuzzy Systems</i> , 1996 , 4, 215-226	1.6	2
48	1991 ,		2
47	Improving Generalization Abilities of Maximal Average Margin Classifiers. <i>Lecture Notes in Computer Science</i> , 2016 , 29-41	0.9	2
46	Convergence Improvement of Active Set Training for Support Vector Regressors. <i>Lecture Notes in Computer Science</i> , 2010 , 1-10	0.9	2
45	Modeling and Genetic Solution for Scheduling Problems with Regular and Non-Regular Objective Functions. <i>Transactions of the Society of Instrument and Control Engineers</i> , 1999 , 35, 662-667	0.1	2
44	Feature Selection by Block Addition and Block Deletion. <i>Lecture Notes in Computer Science</i> , 2012 , 48-59	0.9	2
43	Effect of Equality Constraints to Unconstrained Large Margin Distribution Machines. <i>Lecture Notes in Computer Science</i> , 2018 , 41-53	0.9	2
42	Minimal Complexity Support Vector Machines for Pattern Classification. <i>Computers</i> , 2020 , 9, 88	1.9	1
41	Feature Selection by Iterative Block Addition and Block Deletion 2013 ,		1
40	Sparse kernel feature analysis using FastMap and its variants 2009 ,		1

39	A new approach to discover interlacing data structures in high-dimensional space. <i>Journal of Intelligent Information Systems</i> , 2009 , 33, 3-22	2.1	1
38	Training of support vector regressors based on the steepest ascent method		1
37	Input layer optimization of neural networks by sensitivity analysis and its application to recognition of numerals.. <i>IEEJ Transactions on Industry Applications</i> , 1991 , 111, 36-44	0.2	1
36	A Fuzzy Classifier with Polyhedral Regions. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2001 , 14, 364-371	0.1	1
35	Improvement of Generalization Ability of Multiclass Support Vector Machines by Introducing Fuzzy Logic and Bayes Theory. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2002 , 15, 643-651	0.1	1
34	Incremental Learning Algorithm for Feedforward Neural Network with Long-Term Memory. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2002 , 38, 792-799	0.1	1
33	High Speed Training of a Fuzzy Classifier with Polyhedral Regions. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2002 , 15, 673-680	0.1	1
32	Steepest Ascent Training of Support Vector Regressors. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2004 , 124, 2064-2071	0.1	1
31	?????????????????????????????????????. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2004 , 17, 122-130	0.1	1
30	Minimal Complexity Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2020 , 89-101	0.9	1
29	Function Approximation. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 395-442	1.1	1
28	Kernel-Based Methods. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 305-329	1.1	1
27	Fast Support Vector Training by Newton's Method. <i>Lecture Notes in Computer Science</i> , 2011 , 143-150	0.9	1
26	Training Mahalanobis Kernels by Linear Programming. <i>Lecture Notes in Computer Science</i> , 2012 , 339-346	0.9	1
25	DETERMINING WEIGHTS OF THE HOPFIELD NEURAL NETWORKS 1991 , 1507-1510		1
24	Dependency of Generalization Capability for a Multi-Layered Neural Network on its Number of Hidden Units.. <i>IEEJ Transactions on Industry Applications</i> , 1993 , 113, 341-348	0.2	1
23	Techniques in Fuzzy Rules Determination and Their Application to Pattern Classification 1999 , 1051-1079		1
22	Determination of Power System Voltage Stability Part 3: Dynamical Approach. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2007 , 103, 57-65	0.4	0

21	Training neural net classifier to improve generalization capability. <i>Systems and Computers in Japan</i> , 1994 , 25, 101-110	0
20	Comments on: Support vector machines maximizing geometric margins for multi-class classification. <i>Top</i> , 2014 , 22, 841-843	1.3
19	LSI module placement using the kohonen network. <i>Systems and Computers in Japan</i> , 1996 , 27, 92-105	
18	Determination of Power System Voltage Stability Part 3: Dynamical Approach. <i>Systems and Computers in Japan</i> , 1983 , 103, 57-65	
17	Power System Voltage Stability. <i>IEEE Power Engineering Review</i> , 1982 , PER-2, 39-40	
16	Determination of power system voltage stability. Part 2: Digital simulation. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1976 , 96, 78-86	0.4
15	Determination of steady-state switching sequence of power networks. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 1977 , 97, 95-102	0.4
14	A Fuzzy Classifier with Pyramidal Membership Functions. <i>Studies in Fuzziness and Soft Computing</i> , 2003 , 234-248	0.7
13	How to Write and Present Papers. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2005 , 125, 1-6	0.1
12	Determination of Power System Voltage Stability, Part 3: Dynamical Approach. <i>IEEJ Transactions on Power and Energy</i> , 1983 , 103, 349-356	0.2
11	Determining Optimal Number of Hidden Units for Multi-Layered Neural Networks.. <i>IEEJ Transactions on Industry Applications</i> , 1992 , 112, 1064-1070	0.2
10	Fuzzy systems with learning capability. <i>Lecture Notes in Computer Science</i> , 1997 , 101-115	0.9
9	Maximum-Margin Fuzzy Classifiers. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 367-394	1.1
8	Maximum-Margin Multilayer Neural Networks. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 353-366	1.1
7	Training Methods. <i>Advances in Computer Vision and Pattern Recognition</i> , 2010 , 227-303	1.1
6	Evaluation of Feature Selection by Multiclass Kernel Discriminant Analysis. <i>Lecture Notes in Computer Science</i> , 2010 , 13-24	0.9
5	Incremental Feature Selection by Block Addition and Block Deletion Using Least Squares SVRs. <i>Lecture Notes in Computer Science</i> , 2014 , 35-46	0.9
4	Determination of Power System Voltage Stability, Part 2: Digital Simulation. <i>IEEJ Transactions on Power and Energy</i> , 1976 , 96, 179-186	0.2

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| 3 | Determination of Power System Voltage Stability, Part 1: Theory. <i>IEEJ Transactions on Power and Energy</i> , 1976 , 96, 171-178 | 0.2 |
| 2 | Initial Value Selection of Load Flow Calculations in the Vicinity of a Voltage Stability Limit. <i>IEEJ Transactions on Power and Energy</i> , 1977 , 97, 23-30 | 0.2 |
| 1 | Are twin hyperplanes necessary?. <i>Pattern Recognition Letters</i> , 2018 , 116, 218-224 | 4.7 |