Shigeo Abe

List of Publications by Year in Descending Order

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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	Minimal Complexity Support Vector Machines for Pattern Classification. *Computers*, **2020**, 9, 88	1.9	1
127	Minimal Complexity Support Vector Machines. *Lecture Notes in Computer Science*, **2020**, 89-101	0.9	1
126	Analyzing Minimal Complexity Machines **2019**,		3
125	Are twin hyperplanes necessary?. *Pattern Recognition Letters*, **2018**, 116, 218-224	4.7	
124	Effect of Equality Constraints to Unconstrained Large Margin Distribution Machines. *Lecture Notes in Computer Science*, **2018**, 41-53	0.9	2
123	Unconstrained large margin distribution machines. *Pattern Recognition Letters*, **2017**, 98, 96-102	4.7	11
122	Fusing sequential minimal optimization and Newton's method for support vector training. *International Journal of Machine Learning and Cybernetics*, **2016**, 7, 345-364	3.8	21
121	Improving Generalization Abilities of Maximal Average Margin Classifiers. *Lecture Notes in Computer Science*, **2016**, 29-41	0.9	2
120	Optimizing working sets for training support vector regressors by Newton's method **2015**,		3
119	Fuzzy support vector machines for multilabel classification. *Pattern Recognition*, **2015**, 48, 2110-2117	7.7	56
118	Comments on: Support vector machines maximizing geometric margins for multi-class classification. *Top*, **2014**, 22, 841-843	1.3	
117	Incremental Feature Selection by Block Addition and Block Deletion Using Least Squares SVRs. *Lecture Notes in Computer Science*, **2014**, 35-46	0.9	
116	Feature Selection by Iterative Block Addition and Block Deletion **2013**,		1
115	Training Mahalanobis Kernels by Linear Programming. *Lecture Notes in Computer Science*, **2012**, 339-346	0.9	1
114	Feature Selection by Block Addition and Block Deletion. *Lecture Notes in Computer Science*, **2012**, 48-59	0.9	2
113	Fast Support Vector Training by Newton's Method. *Lecture Notes in Computer Science*, **2011**, 143-150	0.9	1
112	Feature selection and fast training of subspace based support vector machines **2010**,		5

111	Support Vector Machines for Pattern Classification. *Advances in Computer Vision and Pattern Recognition*, **2010**,	1.1	209
110	Convergence improvement of active set support vector training **2010**,		2
109	Function Approximation. *Advances in Computer Vision and Pattern Recognition*, **2010**, 395-442	1.1	1
108	Two-Class Support Vector Machines. *Advances in Computer Vision and Pattern Recognition*, **2010**, 21-112	1.1	4
107	Multiclass Support Vector Machines. *Advances in Computer Vision and Pattern Recognition*, **2010**, 113-161	1.1	5
106	Variants of Support Vector Machines. *Advances in Computer Vision and Pattern Recognition*, **2010**, 163-226	1.1	4
105	Kernel-Based Methods. *Advances in Computer Vision and Pattern Recognition*, **2010**, 305-329	1.1	1
104	Feature Selection and Extraction. *Advances in Computer Vision and Pattern Recognition*, **2010**, 331-341	1.1	15
103	A Fast Incremental Kernel Principal Component Analysis for Online Feature Extraction. *Lecture Notes in Computer Science*, **2010**, 487-497	0.9	7
102	Convergence Improvement of Active Set Training for Support Vector Regressors. *Lecture Notes in Computer Science*, **2010**, 1-10	0.9	2
101	Feature Extraction Using Support Vector Machines. *Lecture Notes in Computer Science*, **2010**, 108-115	0.9	6
100	Fast Variable Selection by Block Addition and Block Deletion. *Journal of Intelligent Learning Systems and Applications*, **2010**, 02, 200-211	0.7	4
99	Maximum-Margin Fuzzy Classifiers. *Advances in Computer Vision and Pattern Recognition*, **2010**, 367-394	1.1	
98	Maximum-Margin Multilayer Neural Networks. *Advances in Computer Vision and Pattern Recognition*, **2010**, 353-366	1.1	
97	Training Methods. *Advances in Computer Vision and Pattern Recognition*, **2010**, 227-303	1.1	
96	Evaluation of Feature Selection by Multiclass Kernel Discriminant Analysis. *Lecture Notes in Computer Science*, **2010**, 13-24	0.9	
95	Sparse kernel feature analysis using FastMap and its variants **2009**,		1
94	Subspace based linear programming support vector machines **2009**,		2

93	Subspace based least squares support vector machines for pattern classification **2009**,		3
92	Sparse support vector regressors based on forward basis selection **2009**,		2
91	Decomposition techniques for training linear programming support vector machines. *Neurocomputing*, **2009**, 72, 973-984	5.4	17
90	A new approach to discover interlacing data structures in high-dimensional space. *Journal of Intelligent Information Systems*, **2009**, 33, 3-22	2.1	1
89	Tuning membership functions of kernel fuzzy classifiers by maximizing margins. *Memetic Computing* , **2009**, 1, 221-228	3.4	7
88	Subspace-based support vector machines for pattern classification. *Neural Networks*, **2009**, 22, 558-67	9.1	9
87	Improved Parameter Tuning Algorithms for Fuzzy Classifiers. *Lecture Notes in Computer Science*, **2009**, 937-944	0.9	2
86	Is Primal Better Than Dual. *Lecture Notes in Computer Science*, **2009**, 854-863	0.9	4
85	Kernel discriminant analysis based feature selection. *Neurocomputing*, **2008**, 71, 2544-2552	5.4	9
84	Sparse Least Squares Support Vector Machines by Forward Selection Based on Linear Discriminant Analysis. *Lecture Notes in Computer Science*, **2008**, 54-65	0.9	3
83	Batch Support Vector Training Based on Exact Incremental Training. *Lecture Notes in Computer Science*, **2008**, 295-304	0.9	5
82	Determination of Power System Voltage Stability Part 3: Dynamical Approach. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **2007**, 103, 57-65	0.4	0
81	Sparse least squares support vector training in the reduced empirical feature space. *Pattern Analysis and Applications*, **2007**, 10, 203-214	2.3	31
80	Backward Varilable Selection of Support Vector Regressors by Block Deletion. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		7
79	. *Neural Networks (IJCNN), International Joint Conference on*, **2007**,		8
78	Fuzzy Classifiers Based on Kernel Discriminant Analysis. *Lecture Notes in Computer Science*, **2007**, 180-189	0.9	3
77	Sparse Least Squares Support Vector Regressors Trained in the Reduced Empirical Feature Space. *Lecture Notes in Computer Science*, **2007**, 527-536	0.9	7
76	Incremental training of support vector machines using hyperspheres. *Pattern Recognition Letters*, **2006**, 27, 1495-1507	4.7	35

75	An Incremental Learning Algorithm of Ensemble Classifier Systems **2006**,		8
74	Feature Selection Based on Kernel Discriminant Analysis. *Lecture Notes in Computer Science*, **2006**, 282-291	0.9	5
73	Support Vector Regression Using Mahalanobis Kernels. *Lecture Notes in Computer Science*, **2006**, 144-152	0.9	6
72	Incremental Training of Support Vector Machines Using Truncated Hypercones. *Lecture Notes in Computer Science*, **2006**, 153-164	0.9	3
71	Fast Training of Linear Programming Support Vector Machines Using Decomposition Techniques. *Lecture Notes in Computer Science*, **2006**, 165-176	0.9	4
70	Incremental learning of feature space and classifier for face recognition. *Neural Networks*, **2005**, 18, 575-584	9.1	87
69	Comparison between error correcting output codes and fuzzy support vector machines. *Pattern Recognition Letters*, **2005**, 26, 1937-1945	4.7	16
68	Boosting Kernel Discriminant Analysis with Adaptive Kernel Selection **2005**, 429-432		2
67	Training of Support Vector Machines with Mahalanobis Kernels. *Lecture Notes in Computer Science*, **2005**, 571-576	0.9	14
66	How to Write and Present Papers. *IEEJ Transactions on Electronics, Information and Systems*, **2005**, 125, 1-6	0.1	
65	KPCA-based training of a kernel fuzzy classifier with ellipsoidal regions. *International Journal of Approximate Reasoning*, **2004**, 37, 189-217	3.6	13
64	Steepest Ascent Training of Support Vector Regressors. *IEEJ Transactions on Electronics, Information and Systems*, **2004**, 124, 2064-2071	0.1	1
63	??????????????????????????????. *Transactions of the Institute of Systems Control and Information Engineers*, **2004**, 17, 122-130	0.1	1
62	Fuzzy least squares support vector machines for multiclass problems. *Neural Networks*, **2003**, 16, 785-92	9.1	152
61	A Fuzzy Classifier with Pyramidal Membership Functions. *Studies in Fuzziness and Soft Computing*, **2003**, 234-248	0.7	
60	A reinforcement learning algorithm for neural networks with incremental learning ability **2002**,		6
59	Improvement of Generalization Ability of Multiclass Support Vector Machines by Introducing Fuzzy Logic and Bayes Theory. *Transactions of the Institute of Systems Control and Information Engineers*, **2002**, 15, 643-651	0.1	1
58	Incremental Learning Algorithm for Feedforward Neural Network with Long-Term Memory. *Transactions of the Society of Instrument and Control Engineers*, **2002**, 38, 792-799	0.1	1

57	High Speed Training of a Fuzzy Classifier with Polyhedral Regions. *Transactions of the Institute of Systems Control and Information Engineers*, **2002**, 15, 673-680	0.1	1
56	A Fuzzy Classifier with Polyhedral Regions. *Transactions of the Institute of Systems Control and Information Engineers*, **2001**, 14, 364-371	0.1	1
55	Fast Training of Support Vector Machines by Extracting Boundary Data. *Lecture Notes in Computer Science*, **2001**, 308-313	0.9	12
54	Pattern Classification **2001**,		55
53	Robust function approximation using fuzzy rules with ellipsoidal regions **2000**,		4
52	A fuzzy classifier with ellipsoidal regions for diagnosis problems. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **1999**, 29, 140-148		18
51	Function approximation based on fuzzy rules extracted from partitioned numerical data. *IEEE Transactions on Systems, Man, and Cybernetics*, **1999**, 29, 525-34		44
50	Fuzzy function approximators with ellipsoidal regions. *IEEE Transactions on Systems, Man, and Cybernetics*, **1999**, 29, 654-61		16
49	Modeling and Genetic Solution for Scheduling Problems with Regular and Non-Regular Objective Functions. *Transactions of the Society of Instrument and Control Engineers*, **1999**, 35, 662-667	0.1	2
48	Techniques in Fuzzy Rules Determination and Their Application to Pattern Classification **1999**, 1051-1079		1
47	Dynamic cluster generation for a fuzzy classifier with ellipsoidal regions. *IEEE Transactions on Systems, Man, and Cybernetics*, **1998**, 28, 869-76		16
46	Feature selection by analyzing class regions approximated by ellipsoids. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **1998**, 28, 282-287		11
45	Neural Networks and Fuzzy Systems **1997**,		20
44	A fuzzy classifier with ellipsoidal regions. *IEEE Transactions on Fuzzy Systems*, **1997**, 5, 358-368	8.3	115
43	A novel approach to feature selection based on analysis of class regions. *IEEE Transactions on Systems, Man, and Cybernetics*, **1997**, 27, 196-207		39
42	Fuzzy systems with learning capability. *Lecture Notes in Computer Science*, **1997**, 101-115	0.9	
41	Convergence acceleration of the Hopfield neural network by optimizing integration step sizes. *IEEE Transactions on Systems, Man, and Cybernetics*, **1996**, 26, 194-201		10
40	Extraction of Fuzzy Rules for Classification Based on Partitioned Hyperboxes. *Journal of Intelligent and Fuzzy Systems*, **1996**, 4, 215-226	1.6	2

39	Tuning of a fuzzy classifier derived from data. *International Journal of Approximate Reasoning*, **1996**, 14, 1-24	3.6	21
38	LSI module placement using the kohonen network. *Systems and Computers in Japan*, **1996**, 27, 92-105		
37	. *IEEE Transactions on Circuits and Systems Part 2: Express Briefs*, **1995**, 42, 39-45		16
36	. *IEEE Transactions on Fuzzy Systems*, **1995**, 3, 18-28	8.3	188
35	. *IEEE Transactions on Systems, Man, and Cybernetics*, **1995**, 25, 119-129		113
34	. *IEEE Transactions on Systems, Man, and Cybernetics*, **1995**, 25, 353-361		55
33	Training neural net classifier to improve generalization capability. *Systems and Computers in Japan*, **1994**, 25, 101-110		0
32	. *IEEE Transactions on Circuits and Systems Part 1: Regular Papers*, **1993**, 40, 246-257		51
31	Extracting algorithms from pattern classification neural networks. *Neural Networks*, **1993**, 6, 729-735	9.1	9
30	Dependency of Generalization Capability for a Multi-Layered Neural Network on its Number of Hideen Units.. *IEEJ Transactions on Industry Applications*, **1993**, 113, 341-348	0.2	1
29	Solving inequality constrained combinatorial optimization problems by the hopfield neural networks. *Neural Networks*, **1992**, 5, 663-670	9.1	39
28	Determining Optimal Number of Hidden Units for Multi-Layered Neural Networks.. *IEEJ Transactions on Industry Applications*, **1992**, 112, 1064-1070	0.2	
27	Input layer optimization of neural networks by sensitivity analysis and its application to recognition of numerals. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **1991**, 111, 130-138	0.4	22
26	**1991**,		2
25	Input layer optimization of neural networks by sensitivity analysis and its application to recognition of numerals.. *IEEJ Transactions on Industry Applications*, **1991**, 111, 36-44	0.2	1
24	DETERMINING WEIGHTS OF THE HOPFIELD NEURAL NETWORKS **1991**, 1507-1510		1
23	Convergence of the Hopfield neural networks with inequality constraints **1990**,		5
22	**1989**,		39

21	High performance integrated Prolog processor IPP **1987**,		7
20	Determination of Power System Voltage Stability Part 3: Dynamical Approach. *Systems and Computers in Japan*, **1983**, 103, 57-65		
19	Determination of Power System Voltage Stability, Part 3: Dynamical Approach. *IEEJ Transactions on Power and Energy*, **1983**, 103, 349-356	0.2	
18	Power System Voltage Stability. *IEEE Power Engineering Review*, **1982**, PER-2, 39-40		
17	Power System Voltage Stability. *IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee*, **1982**, PAS-101, 3830-3840		68
16	Calculation of Energy Losses in a Distribution System. *IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee*, **1980**, PAS-99, 1347-1356		72
15	Load Flow Convergence in the Vicinity of a Voltage Stability Limit. *IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee*, **1978**, PAS-97, 1983-1993		29
14	Initial value selection of load flow calculations in the vicinity of a voltage stability limit. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **1977**, 97, 60-69	0.4	3
13	Determination of steady-state switching sequence of power networks. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **1977**, 97, 95-102	0.4	
12	Initial Value Selection of Load Flow Calculations in the Vicinity of a Voltage Stability Limit. *IEEJ Transactions on Power and Energy*, **1977**, 97, 23-30	0.2	
11	Determination of power system voltage stability. Part I: Theory. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **1976**, 96, 70-77	0.4	14
10	Determination of power system voltage stability. Part 2: Digital simulation. *Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)*, **1976**, 96, 78-86	0.4	
9	Determination of Power System Voltage Stability, Part 2: Digital Simulation. *IEEJ Transactions on Power and Energy*, **1976**, 96, 179-186	0.2	
8	Determination of Power System Voltage Stability, Part 1: Theory. *IEEJ Transactions on Power and Energy*, **1976**, 96, 171-178	0.2	
7	Why pairwise is better than one-against-all or all-at-once		7
6	Incremental learning for online face recognition		7
5	Training of support vector regressors based on the steepest ascent method		1
4	Maximizing margins of multilayer neural networks		3