

Chih-Jen Lin

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.

79 papers	29,207 citations	36 h-index	85 g-index
85 ext. papers	34,483 ext. citations	4.1 avg, IF	8.01 L-index

#	Paper	IF	Citations
79	Parameter Selection for Linear Support Vector Regression. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 5639-5644	10.3	2
78	Newton Methods for Convolutional Neural Networks. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2020 , 11, 1-30	8	0
77	Distributed Newton Methods for Deep Neural Networks. <i>Neural Computation</i> , 2018 , 30, 1673-1724	2.9	7
76	An Efficient Alternating Newton Method for Learning Factorization Machines. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2018 , 9, 1-31	8	0
75	Naive Parallelization of Coordinate Descent Methods and an Application on Multi-core L1-regularized Classification 2018 ,		3
74	Automatic Valve Plane Localization in Myocardial Perfusion SPECT/CT by Machine Learning: Anatomic and Clinical Validation. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 961-967	8.9	37
73	Limited-memory Common-directions Method for Distributed Optimization and its Application on Empirical Risk Minimization 2017 , 732-740		2
72	Linear and Kernel Classification: When to Use Which? 2016 ,		19
71	Parallel Dual Coordinate Descent Method for Large-scale Linear Classification in Multi-core Environments 2016 ,		16
70	Field-aware Factorization Machines for CTR Prediction 2016 ,		231
69	A Fast Parallel Stochastic Gradient Method for Matrix Factorization in Shared Memory Systems. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2015 , 6, 1-24	8	45
68	Warm Start for Parameter Selection of Linear Classifiers 2015 ,		8
67	Subsampled Hessian Newton Methods for Supervised Learning. <i>Neural Computation</i> , 2015 , 27, 1766-95	2.9	9
66	A Learning-Rate Schedule for Stochastic Gradient Methods to Matrix Factorization. <i>Lecture Notes in Computer Science</i> , 2015 , 442-455	0.9	22
65	Fast Matrix-Vector Multiplications for Large-Scale Logistic Regression on Shared-Memory Systems 2015 ,		12
64	Distributed Newton Methods for Regularized Logistic Regression. <i>Lecture Notes in Computer Science</i> , 2015 , 690-703	0.9	18
63	Big data small footprint. <i>Proceedings of the VLDB Endowment</i> , 2014 , 7, 1429-1440	3.1	62

62	Improved derivation efficiency and pluripotency of stem cells from the refractory inbred C57BL/6 mouse strain by small molecules. <i>PLoS ONE</i> , 2014 , 9, e106916	3.7	4
61	Large-scale Kernel RankSVM 2014 ,		20
60	Large-scale linear rankSVM. <i>Neural Computation</i> , 2014 , 26, 781-817	2.9	60
59	Incremental and decremental training for linear classification 2014 ,		25
58	Large-scale logistic regression and linear support vector machines using spark 2014 ,		34
57	A study on L2-loss (squared hinge-loss) multiclass SVM. <i>Neural Computation</i> , 2013 , 25, 1302-23	2.9	32
56	A fast parallel SGD for matrix factorization in shared memory systems 2013 ,		78
55	Recent Advances of Large-Scale Linear Classification. <i>Proceedings of the IEEE</i> , 2012 , 100, 2584-2603	14.3	164
54	Large Linear Classification When Data Cannot Fit in Memory. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2012 , 5, 1-23	4	26
53	Expression of HOXB genes is significantly different in acute myeloid leukemia with a partial tandem duplication of MLL vs. a MLL translocation: a cross-laboratory study. <i>Cancer Genetics</i> , 2011 , 204, 252-9	2.3	10
52	LIBSVM. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2011 , 2, 1-27	8	16717
51	Parallel spectral clustering in distributed systems. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2011 , 33, 568-86	13.3	313
50	Dual coordinate descent methods for logistic regression and maximum entropy models. <i>Machine Learning</i> , 2011 , 85, 41-75	4	175
49	Active learning strategies using SVMs 2010 ,		8
48	Acceptance of embryonic stem cells by a wide developmental range of mouse tetraploid embryos. <i>Biology of Reproduction</i> , 2010 , 83, 177-84	3.9	11
47	Large linear classification when data cannot fit in memory 2010 ,		25
46	Iterative scaling and coordinate descent methods for maximum entropy 2009 ,		5
45	Cross-generation and cross-laboratory predictions of Affymetrix microarrays by rank-based methods. <i>Journal of Biomedical Informatics</i> , 2008 , 41, 570-9	10.2	18

44	A sequential dual method for large scale multi-class linear svms 2008 ,		70
43	A dual coordinate descent method for large-scale linear SVM 2008 ,		354
42	Projected gradient methods for nonnegative matrix factorization. <i>Neural Computation</i> , 2007 , 19, 2756-79.9	1027	
41	On the Convergence of Multiplicative Update Algorithms for Nonnegative Matrix Factorization. <i>IEEE Transactions on Neural Networks</i> , 2007 , 18, 1589-1596		249
40	A note on Platt's probabilistic outputs for support vector machines. <i>Machine Learning</i> , 2007 , 68, 267-276.4	496	
39	Trust region Newton methods for large-scale logistic regression 2007 ,		52
38	Combining SVMs with Various Feature Selection Strategies. <i>Studies in Fuzziness and Soft Computing</i> , 2006 , 315-324	0.7	354
37	A study on SMO-type decomposition methods for support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 893-908		180
36	A tutorial on Support vector machines. <i>Applied Stochastic Models in Business and Industry</i> , 2005 , 21, 111-136	1.1	248
35	Leave-One-Out Bounds for Support Vector Regression Model Selection. <i>Neural Computation</i> , 2005 , 17, 1188-1222	2.9	70
34	Training Support Vector Machines via SMO-Type Decomposition Methods. <i>Lecture Notes in Computer Science</i> , 2005 , 45-62	0.9	2
33	Analysis of switching dynamics with competing support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 720-7		15
32	Decomposition Methods for Linear Support Vector Machines. <i>Neural Computation</i> , 2004 , 16, 1689-1704	2.9	27
31	Predicting subcellular localization of proteins for Gram-negative bacteria by support vector machines based on n-peptide compositions. <i>Protein Science</i> , 2004 , 13, 1402-6	6.3	535
30	Prediction of the bonding states of cysteines using the support vector machines based on multiple feature vectors and cysteine state sequences. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004 , 55, 1036-42	4.2	45
29	Load forecasting using support vector Machines: a study on EUNITE competition 2001. <i>IEEE Transactions on Power Systems</i> , 2004 , 19, 1821-1830	7	471
28	Fine-grained protein fold assignment by support vector machines using generalized npeptide coding schemes and jury voting from multiple-parameter sets. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003 , 50, 531-6	4.2	22
27	Asymptotic behaviors of support vector machines with Gaussian kernel. <i>Neural Computation</i> , 2003 , 15, 1667-89	2.9	1073

26	A study on reduced support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2003 , 14, 1449-59		134
25	Radius margin bounds for support vector machines with the RBF kernel. <i>Neural Computation</i> , 2003 , 15, 2643-81	2.9	147
24	A Simple Decomposition Method for Support Vector Machines 2002 , 46, 291-314		164
23	Errata to "On the convergence of the decomposition method for support vector machines". <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1025		
22	A note on the decomposition methods for support vector regression. <i>Neural Computation</i> , 2002 , 14, 1267-81	1.9	17
21	A comparison of methods for multiclass support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 415-25		3946
20	A formal analysis of stopping criteria of decomposition methods for support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 1045-52		51
19	Asymptotic convergence of an SMO algorithm without any assumptions. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 248-50		79
18	Training nu-support vector regression: theory and algorithms. <i>Neural Computation</i> , 2002 , 14, 1959-77	2.9	214
17	Analysis of Nonstationary Time Series Using Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2002 , 160-170	0.9	3
16	Solving quadratic semi-infinite programming problems by using relaxed cutting-plane scheme. <i>Journal of Computational and Applied Mathematics</i> , 2001 , 129, 89-104	2.4	15
15	Solving General Capacity Problem by Relaxed Cutting Plane Approach. <i>Annals of Operations Research</i> , 2001 , 103, 193-211	3.2	3
14	Formulations of Support Vector Machines: A Note from an Optimization Point of View. <i>Neural Computation</i> , 2001 , 13, 307-317	2.9	58
13	Training nu-support vector classifiers: theory and algorithms. <i>Neural Computation</i> , 2001 , 13, 2119-47	2.9	332
12	On the convergence of the decomposition method for support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2001 , 12, 1288-98		135
11	An Incomplete Cholesky Factorization for Dense Symmetric Positive Definite Matrices. <i>BIT Numerical Mathematics</i> , 2000 , 40, 536-558	1.7	15
10	The analysis of decomposition methods for support vector machines. <i>IEEE Transactions on Neural Networks</i> , 2000 , 11, 1003-8		96
9	Newton's Method for Large Bound-Constrained Optimization Problems. <i>SIAM Journal on Optimization</i> , 1999 , 9, 1100-1127	2	207

8	Efficient test-point selection for scan-based BIST. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 1998 , 6, 667-676	2.6	12
7	Integration of partial scan and built-in self-test. <i>Journal of Electronic Testing: Theory and Applications (JETTA)</i> , 1995 , 7, 125-137	0.7	15
6	Large-Scale Spectral Clustering with Map Reduce and MPI240-261		0
5	A Hybrid Algorithm For Test Point Selection For Scan-based Bist		14
4	IJCNN 2001 challenge: generalization ability and text decoding		5
3	Analysis of switching dynamics with competing support vector machines		1
2	Timing-driven test point insertion for full-scan and partial-scan BIST		33
1	Limited-memory common-directions method for large-scale optimization: convergence, parallelization, and distributed optimization. <i>Mathematical Programming Computation</i> ,1	7.8	