Xiaotong Shen

List of Publications by Year
in descending order

74 papers	2,761 citations	201575 27 h-index	197736 49 g-index
81 all docs	81 docs citations	81 times ranked	2433 citing authors

#	Article	IF	Citations
1	Convergence Rate of Sieve Estimates. Annals of Statistics, 1994, 22, 580.	1.4	243
2	Likelihood-Based Selection and Sharp Parameter Estimation. Journal of the American Statistical Association, 2012, 107, 223-232.	1.8	172
3	Probability Inequalities for Likelihood Ratios and Convergence Rates of Sieve MLES. Annals of Statistics, 1995, 23, 339.	1.4	157
4	A Powerful and Adaptive Association Test for Rare Variants. Genetics, 2014, 197, 1081-1095.	1.2	150
5	Adaptive Model Selection. Journal of the American Statistical Association, 2002, 97, 210-221.	1.8	147
6	On ψ-Learning. Journal of the American Statistical Association, 2003, 98, 724-734.	1.8	142
7	Multicategory ψ-Learning. Journal of the American Statistical Association, 2006, 101, 500-509.	1.8	122
8	Constrained maximum likelihood-based Mendelian randomization robust to both correlated and uncorrelated pleiotropic effects. American Journal of Human Genetics, 2021, 108, 1251-1269.	2.6	104
9	Multicategory ψ-Learning and Support Vector Machine: Computational Tools. Journal of Computational and Graphical Statistics, 2005, 14, 219-236.	0.9	93
10	Spatially Adaptive Regression Splines and Accurate Knot Selection Schemes. Journal of the American Statistical Association, 2001, 96, 247-259.	1.8	91
11	Grouping Pursuit Through a Regularization Solution Surface. Journal of the American Statistical Association, 2010, 105, 727-739.	1.8	90
12	OnL1-Norm Multiclass Support Vector Machines. Journal of the American Statistical Association, 2007, 102, 583-594.	1.8	81
13	Feature grouping and selection over an undirected graph. , 2012, , 922-930.		77
14	Testing for association with multiple traits in generalized estimation equations, with application to neuroimaging data. NeuroImage, 2014, 96, 309-325.	2.1	60
15	Probability estimation for large-margin classifiers. Biometrika, 2008, 95, 149-167.	1.3	53
16	Optimal Model Assessment, Selection, and Combination. Journal of the American Statistical Association, 2006, 101, 554-568.	1.8	52
17	Nonparametric Hypothesis Testing for a Spatial Signal. Journal of the American Statistical Association, 2002, 97, 1122-1140.	1.8	51
18	A simple convolutional neural network for prediction of enhancer–promoter interactions with DNA sequence data. Bioinformatics, 2019, 35, 2899-2906.	1.8	50

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19	Asymptotic Normality of Semiparametric and Nonparametric Posterior Distributions. Journal of the American Statistical Association, 2002, 97, 222-235.	1.8	49
20	Bayesian principal component analysis. Journal of Chemometrics, 2002, 16, 576-595.	0.7	49
21	Structural Pursuit Over Multiple Undirected Graphs. Journal of the American Statistical Association, 2014, 109, 1683-1696.	1.8	48
22	Comparison of statistical tests for group differences in brain functional networks. NeuroImage, 2014, 101, 681-694.	2.1	47
23	Inference After Model Selection. Journal of the American Statistical Association, 2004, 99, 751-762.	1.8	44
24	On constrained and regularized high-dimensional regression. Annals of the Institute of Statistical Mathematics, 2013, 65, 807-832.	0.5	43
25	Longitudinal Analysis Is More Powerful than Cross-Sectional Analysis in Detecting Genetic Association with Neuroimaging Phenotypes. PLoS ONE, 2014, 9, e102312.	1.1	42
26	Adaptive Free-Knot Splines. Journal of Computational and Graphical Statistics, 2003, 12, 197-213.	0.9	32
27	Variable Selection in Penalized Model€Based Clustering Via Regularization on Grouped Parameters. Biometrics, 2008, 64, 921-930.	0.8	32
28	Simultaneous supervised clustering and feature selection over a graph. Biometrika, 2012, 99, 899-914.	1.3	28
29	Linear Regression with Current Status Data. Journal of the American Statistical Association, 2000, 95, 842-852.	1.8	27
30	Adaptive Model Selection and Assessment for Exponential Family Distributions. Technometrics, 2004, 46, 306-317.	1.3	27
31	Cluster Analysis: Unsupervised Learning via Supervised Learning with a Non-convex Penalty. Journal of Machine Learning Research, 2013, 14, 1865.	62.4	27
32	Process modeling by Bayesian latent variable regression. AICHE Journal, 2002, 48, 1775-1793.	1.8	26
33	Estimation of multiple networks in Gaussian mixture models. Electronic Journal of Statistics, 2016, 10, 1133-1154.	0.4	24
34	Optimal exact least squares rank minimization. , 2012, 2012, 480-488.		23
35	Penalized regression and risk prediction in genome€wide association studies. Statistical Analysis and Data Mining, 2013, 6, 315-328.	1.4	23
36	A Group-Specific Recommender System. Journal of the American Statistical Association, 2017, 112, 1344-1353.	1.8	22

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37	On Efficient Large Margin Semisupervised Learning: Method and Theory. Journal of Machine Learning Research, 2009, 10, 719-742.	62.4	21
38	Constrained likelihood for reconstructing a directed acyclic Gaussian graph. Biometrika, 2019, 106, 109-125.	1.3	17
39	Random Sieve Likelihood and General Regression Models. Journal of the American Statistical Association, 1999, 94, 835-846.	1.8	16
40	Free-knot Splines and Adaptive Knot Selection. Journal of the Japan Statistical Society, 2005, 35, 303-324.	0.1	16
41	Deep reinforcement learning for personalized treatment recommendation. Statistics in Medicine, 2022, 41, 4034-4056.	0.8	13
42	Likelihood Ratio Tests for a Large Directed Acyclic Graph. Journal of the American Statistical Association, 2020, 115, 1304-1319.	1.8	12
43	Word segmentation in Chinese language processing. Statistics and Its Interface, 2017, 10, 165-173.	0.2	12
44	Integrative and regularized principal component analysis of multiple sources of data. Statistics in Medicine, 2016, 35, 2235-2250.	0.8	11
45	Classification With Unstructured Predictors and an Application to Sentiment Analysis. Journal of the American Statistical Association, 2016, 111, 1242-1253.	1.8	9
46	Computational developments of ψ-learning. , 2005, , .		8
47	Application of deep convolutional neural networks in classification of protein subcellular localization with microscopy images. Genetic Epidemiology, 2019, 43, 330-341.	0.6	7
48	On High-Dimensional Constrained Maximum Likelihood Inference. Journal of the American Statistical Association, 2020, 115, 217-230.	1.8	6
49	Linear Regression with Current Status Data. Journal of the American Statistical Association, 2000, 95, 842.	1.8	6
50	Maximum Likelihood Estimation Over Directed Acyclic Gaussian Graphs. Statistical Analysis and Data Mining, 2012, 5, 523-530.	1.4	5
51	Significance Tests of Feature Relevance for a Black-Box Learner. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 1898-1911.	7.2	5
52	Improving principal component analysis using Bayesian estimation. , 2001, , .		4
53	Embedding Learning. Journal of the American Statistical Association, 2022, 117, 307-319.	1.8	4
54	Random Sieve Likelihood and General Regression Models. Journal of the American Statistical Association, 1999, 94, 835.	1.8	4

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55	A New Algorithm and Theory for Penalized Regression-based Clustering. Journal of Machine Learning Research, 2016, 17, .	62.4	4
56	On L_1-Norm Multi-class Support Vector Machines. , 2006, , .		3
57	Penalized regression approaches to testing for quantitative trait-rare variant association. Frontiers in Genetics, 2014, 5, 121.	1.1	3
58	A New Semiparametric Approach to Finite Mixture of Regressions using Penalized Regression via Fusion. Statistica Sinica, 2020, 30, 783-807.	0.2	2
59	Reconstruction of a directed acyclic graph with intervention. Electronic Journal of Statistics, 2020, 14, 4133-4164.	0.4	2
60	A GM-based multi-layer method for object tracking in video sequences. , 2003, , .		1
61	Multiple Video Object Extraction Using Multi-Category α-Learning. , 0, , .		1
62	Does the inclusion of rare variants improve risk prediction?. BMC Proceedings, 2014, 8, S94.	1.8	1
63	A Novel Statistic for Global Association Testing Based on Penalized Regression. Genetic Epidemiology, 2015, 39, 415-426.	0.6	1
64	Adaptive Modeling Procedure Selection by Data Perturbation. Journal of Business and Economic Statistics, 2015, 33, 541-551.	1.8	1
65	Nonlinear joint latent variable models and integrative tumor subtype discovery. Statistical Analysis and Data Mining, 2016, 9, 106-116.	1.4	1
66	Scalable Collaborative Ranking for Personalized Prediction. Journal of the American Statistical Association, 2021, 116, 1215-1223.	1.8	1
67	Multilabel Classification With Multivariate Time Series Predictors. IEEE Transactions on Signal Processing, 2020, 68, 5696-5705.	3.2	1
68	Outcome weighted ψ â€•learning for individualized treatment rules. Stat, 2021, 10, e343.	0.3	1
69	Collaborative Multilabel Classification. Journal of the American Statistical Association, 2023, 118, 913-924.	1.8	1
70	A Regularization-Based Adaptive Test for High-Dimensional Generalized Linear Models. Journal of Machine Learning Research, 2020, 21, .	62.4	1
71	Discussion of â€œFrom Fixed-X to Random-X Regression: Bias-Variance Decompositions, Covariance Penalties, and Prediction Error Estimationâ€. Journal of the American Statistical Association, 2020, 115, 152-156.	1.8	0
72	Coupled Generation. Journal of the American Statistical Association, 2022, 117, 1243-1253.	1.8	0

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73	Two-level monotonic multistage recommender systems. Electronic Journal of Statistics, 2021, 15, .	0.4	0
74	Data Flush. , 0, , .		0