

Trevor Hastie

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

66,637
citations

76326

40
h-index

123424

61
g-index

82
all docs

82
docs citations

82
times ranked

77722
citing authors

#	ARTICLE	IF	CITATIONS
1	The Elements of Statistical Learning. Springer Series in Statistics, 2009, , .	0.9	14,554
2	Regularization and Variable Selection Via the Elastic Net. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2005, 67, 301-320.	2.2	12,982
3	Regularization Paths for Generalized Linear Models via Coordinate Descent. Journal of Statistical Software, 2010, 33, .	3.7	10,210
4	Regularization Paths for Generalized Linear Models via Coordinate Descent. Journal of Statistical Software, 2010, 33, 1-22.	3.7	5,775
5	A statistical explanation of MaxEnt for ecologists. Diversity and Distributions, 2011, 17, 43-57.	4.1	4,420
6	Estimating the Number of Clusters in a Data Set Via the Gap Statistic. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2001, 63, 411-423.	2.2	3,996
7	Sparse Principal Component Analysis. Journal of Computational and Graphical Statistics, 2006, 15, 265-286.	1.7	2,067
8	Statistical Learning with Sparsity. , 0, , .		1,380
9	Pathwise coordinate optimization. Annals of Applied Statistics, 2007, 1, .	1.1	1,247
10	A penalized matrix decomposition, with applications to sparse principal components and canonical correlation analysis. Biostatistics, 2009, 10, 515-534.	1.5	1,139
11	A Sparse-Group Lasso. Journal of Computational and Graphical Statistics, 2013, 22, 231-245.	1.7	913
12	On the "degrees of freedom" of the lasso. Annals of Statistics, 2007, 35, 2173.	2.6	655
13	Genome-wide association analysis by lasso penalized logistic regression. Bioinformatics, 2009, 25, 714-721.	4.1	639
14	Prediction by Supervised Principal Components. Journal of the American Statistical Association, 2006, 101, 119-137.	3.1	568
15	Sparse Discriminant Analysis. Technometrics, 2011, 53, 406-413.	1.9	433
16	Accuracy in Wrist-Worn, Sensor-Based Measurements of Heart Rate and Energy Expenditure in a Diverse Cohort. Journal of Personalized Medicine, 2017, 7, 3.	2.5	420
17	Strong Rules for Discarding Predictors in Lasso-Type Problems. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2012, 74, 245-266.	2.2	387
18	Genetics of 35 blood and urine biomarkers in the UK Biobank. Nature Genetics, 2021, 53, 185-194.	21.4	377

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19	Bias correction in species distribution models: pooling survey and collection data for multiple species. <i>Methods in Ecology and Evolution</i> , 2015, 6, 424-438.	5.2	333
20	Point process models for presence-only analysis. <i>Methods in Ecology and Evolution</i> , 2015, 6, 366-379.	5.2	319
21	Penalized logistic regression for detecting gene interactions. <i>Biostatistics</i> , 2008, 9, 30-50.	1.5	314
22	<i>l1</i> -SparseNet: Coordinate Descent With Nonconvex Penalties. <i>Journal of the American Statistical Association</i> , 2011, 106, 1125-1138.	3.1	303
23	Causal Interpretations of Black-Box Models. <i>Journal of Business and Economic Statistics</i> , 2021, 39, 272-281.	2.9	217
24	An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging. <i>Nature Aging</i> , 2021, 1, 598-615.	11.6	202
25	Finite-sample equivalence in statistical models for presence-only data. <i>Annals of Applied Statistics</i> , 2013, 7, 1917-1939.	1.1	189
26	The graphical lasso: New insights and alternatives. <i>Electronic Journal of Statistics</i> , 2012, 6, 2125-2149.	0.7	179
27	Novel methods for the design and evaluation of marine protected areas in offshore waters. <i>Conservation Letters</i> , 2008, 1, 91-102.	5.7	171
28	Learning Interactions via Hierarchical Group-Lasso Regularization. <i>Journal of Computational and Graphical Statistics</i> , 2015, 24, 627-654.	1.7	160
29	Averaged gene expressions for regression. <i>Biostatistics</i> , 2007, 8, 212-227.	1.5	123
30	Wearable sensors enable personalized predictions of clinical laboratory measurements. <i>Nature Medicine</i> , 2021, 27, 1105-1112.	30.7	121
31	Matrix Completion and Low-Rank SVD via Fast Alternating Least Squares. <i>Journal of Machine Learning Research</i> , 2015, 16, 3367-3402.	62.4	90
32	Efficient quadratic regularization for expression arrays. <i>Biostatistics</i> , 2004, 5, 329-340.	1.5	83
33	Some methods for heterogeneous treatment effect estimation in high dimensions. <i>Statistics in Medicine</i> , 2018, 37, 1767-1787.	1.6	83
34	Preconditioning for feature selection and regression in high-dimensional problems. <i>Annals of Statistics</i> , 2008, 36, .	2.6	82
35	Radiation-induced gene expression in human subcutaneous fibroblasts is predictive of radiation-induced fibrosis. <i>Radiotherapy and Oncology</i> , 2008, 86, 314-320.	0.6	78
36	A fast and scalable framework for large-scale and ultrahigh-dimensional sparse regression with application to the UK Biobank. <i>PLoS Genetics</i> , 2020, 16, e1009141.	3.5	75

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37	New multcategory boosting algorithms based on multcategory Fisher-consistent losses. <i>Annals of Applied Statistics</i> , 2008, 2, 1290-1306.	1.1	61
38	Local case-control sampling: Efficient subsampling in imbalanced data sets. <i>Annals of Statistics</i> , 2014, 42, 1693-1724.	2.6	60
39	Gene Expression Programs of Human Smooth Muscle Cells: Tissue-Specific Differentiation and Prognostic Significance in Breast Cancers. <i>PLoS Genetics</i> , 2007, 3, e164.	3.5	56
40	Components of genetic associations across 2,138 phenotypes in the UK Biobank highlight adipocyte biology. <i>Nature Communications</i> , 2019, 10, 4064.	12.8	48
41	Risk estimation of distant metastasis in node-negative, estrogen receptor-positive breast cancer patients using an RT-PCR based prognostic expression signature. <i>BMC Cancer</i> , 2008, 8, 339.	2.6	47
42	A fused lasso latent feature model for analyzing multi-sample aCGH data. <i>Biostatistics</i> , 2011, 12, 776-791.	1.5	46
43	Efficient quadratic regularization for expression arrays. <i>Biostatistics</i> , 2004, 5, 329-340.	1.5	44
44	Significant sparse polygenic risk scores across 813 traits in UK Biobank. <i>PLoS Genetics</i> , 2022, 18, e1010105.	3.5	40
45	Ridge Regularization: An Essential Concept in Data Science. <i>Technometrics</i> , 2020, 62, 426-433.	1.9	37
46	Effective degrees of freedom: a flawed metaphor. <i>Biometrika</i> , 2015, 102, 479-485.	2.4	36
47	Best Subset, Forward Stepwise or Lasso? Analysis and Recommendations Based on Extensive Comparisons. <i>Statistical Science</i> , 2020, 35, .	2.8	36
48	Proteomic analysis of monolayer-integrated proteins on lipid droplets identifies amphipathic interfacial α -helical membrane anchors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8172-E8180.	7.1	31
49	Constrained ordination analysis with flexible response functions. <i>Ecological Modelling</i> , 2005, 187, 524-536.	2.5	26
50	Combining biological gene expression signatures in predicting outcome in breast cancer: An alternative to supervised classification. <i>European Journal of Cancer</i> , 2008, 44, 2319-2329.	2.8	22
51	Fast Lasso method for large-scale and ultrahigh-dimensional Cox model with applications to UK Biobank. <i>Biostatistics</i> , 2022, 23, 522-540.	1.5	22
52	Polygenic risk modeling with latent trait-related genetic components. <i>European Journal of Human Genetics</i> , 2021, 29, 1071-1081.	2.8	14
53	Dynamic visualization of statistical learning in the context of high-dimensional textual data. <i>Web Semantics</i> , 2010, 8, 163-168.	2.9	9
54	Fast numerical optimization for genome sequencing data in population biobanks. <i>Bioinformatics</i> , 2021, 37, 4148-4155.	4.1	9

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55	Relating whole-brain functional connectivity to self-reported negative emotion in a large sample of young adults using group regularized canonical correlation analysis. <i>NeuroImage</i> , 2021, 237, 118137.	4.2	7
56	Using Aggregate Patient Data at the Bedside via an On-Demand Consultation Service. <i>NEJM Catalyst</i> , 2021, 2, .	0.7	6
57	Nuclear penalized multinomial regression with an application to predicting at bat outcomes in baseball. <i>Statistical Modelling</i> , 2018, 18, 388-410.	1.1	5
58	Survival analysis on rare events using group-regularized multi-response Cox regression. <i>Bioinformatics</i> , 2021, 37, 4437-4443.	4.1	3
59	Rejoinder: Best Subset, Forward Stepwise or Lasso? Analysis and Recommendations Based on Extensive Comparisons. <i>Statistical Science</i> , 2020, 35, .	2.8	3
60	Discussion of "Prediction, Estimation, and Attribution" by Bradley Efron. <i>International Statistical Review</i> , 2020, 88, S73.	1.9	2
61	Discussion of "Prediction, Estimation, and Attribution" by Bradley Efron. <i>Journal of the American Statistical Association</i> , 2020, 115, 665-666.	3.1	0
62	Saturating Splines and Feature Selection. <i>Journal of Machine Learning Research</i> , 2018, 18, .	62.4	0
63	Title is missing!. , 2020, 16, e1009141.		0
64	Title is missing!. , 2020, 16, e1009141.		0
65	Title is missing!. , 2020, 16, e1009141.		0
66	Title is missing!. , 2020, 16, e1009141.		0
67	Title is missing!. , 2020, 16, e1009141.		0
68	Title is missing!. , 2020, 16, e1009141.		0