

Hao Helen Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

4,553
citations

304743

22
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

3790
citing authors

#	ARTICLE	IF	CITATIONS
1	Sure Independence Screening for Ultrahigh Dimensional Feature Space. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2008, 70, 849-911.	2.2	1,799
2	On the adaptive elastic-net with a diverging number of parameters. Annals of Statistics, 2009, 37, 1733-1751.	2.6	575
3	Component selection and smoothing in multivariate nonparametric regression. Annals of Statistics, 2006, 34, 2272.	2.6	333
4	Gene selection using support vector machines with non-convex penalty. Bioinformatics, 2006, 22, 88-95.	4.1	230
5	Machine learning for Big Data analytics in plants. Trends in Plant Science, 2014, 19, 798-808.	8.8	220
6	Linear or Nonlinear? Automatic Structure Discovery for Partially Linear Models. Journal of the American Statistical Association, 2011, 106, 1099-1112.	3.1	136
7	Variable selection for optimal treatment decision. Statistical Methods in Medical Research, 2013, 22, 493-504.	1.5	104
8	Weighted Distance Weighted Discrimination and Its Asymptotic Properties. Journal of the American Statistical Association, 2010, 105, 401-414.	3.1	84
9	Graded regulation of cellular quiescence depth between proliferation and senescence by a lysosomal dimmer switch. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22624-22634.	7.1	84
10	Surface estimation, variable selection, and the nonparametric oracle property. Statistica Sinica, 2011, 21, 679.	0.3	83
11	Hard or Soft Classification? Large-Margin Unified Machines. Journal of the American Statistical Association, 2011, 106, 166-177.	3.1	81
12	Interaction Screening for Ultrahigh-Dimensional Data. Journal of the American Statistical Association, 2014, 109, 1285-1301.	3.1	80
13	Variable selection for the multcategory SVM via adaptive sup-norm regularization. Electronic Journal of Statistics, 2008, 2, .	0.7	56
14	Adaptive Elastic Net for Generalized Methods of Moments. Journal of Business and Economic Statistics, 2014, 32, 30-47.	2.9	54
15	Model Selection for High-Dimensional Quadratic Regression via Regularization. Journal of the American Statistical Association, 2018, 113, 615-625.	3.1	54
16	Variable Selection and Model Building via Likelihood Basis Pursuit. Journal of the American Statistical Association, 2004, 99, 659-672.	3.1	46
17	Automatic model selection for partially linear models. Journal of Multivariate Analysis, 2009, 100, 2100-2111.	1.0	42
18	Exit from quiescence displays a memory of cell growth and division. Nature Communications, 2017, 8, 321.	12.8	41

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19	Structured Functional Additive Regression in Reproducing Kernel Hilbert Spaces. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2014, 76, 581-603.	2.2	40
20	N-of-1-pathways MixEnrich: advancing precision medicine via single-subject analysis in discovering dynamic changes of transcriptomes. <i>BMC Medical Genomics</i> , 2017, 10, 27.	1.5	29
21	Model selection in nonparametric hazard regression. <i>Journal of Nonparametric Statistics</i> , 2006, 18, 417-429.	0.9	27
22	Robust Model-Free Multiclass Probability Estimation. <i>Journal of the American Statistical Association</i> , 2010, 105, 424-436.	3.1	23
23	Consistent Group Identification and Variable Selection in Regression With Correlated Predictors. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 319-340.	1.7	23
24	Probability-enhanced sufficient dimension reduction for binary classification. <i>Biometrics</i> , 2014, 70, 546-555.	1.4	23
25	Multiclass Proximal Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2006, 15, 339-355.	1.7	22
26	On Estimation of Partially Linear Transformation Models. <i>Journal of the American Statistical Association</i> , 2010, 105, 683-691.	3.1	22
27	On fusion methods for knowledge discovery from multi-omics datasets. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 509-517.	4.1	20
28	On optimal treatment regimes selection for mean survival time. <i>Statistics in Medicine</i> , 2015, 34, 1169-1184.	1.6	19
29	Variable selection for nonparametric quantile regression via smoothing spline analysis of variance. <i>Stat</i> , 2013, 2, 255-268.	0.4	17
30	Principal weighted support vector machines for sufficient dimension reduction in binary classification. <i>Biometrika</i> , 2017, 104, asw057.	2.4	17
31	A Note on High-Dimensional Linear Regression With Interactions. <i>American Statistician</i> , 2017, 71, 291-297.	1.6	16
32	kMEN: Analyzing noisy and bidirectional transcriptional pathway responses in single subjects. <i>Journal of Biomedical Informatics</i> , 2017, 66, 32-41.	4.3	15
33	FIRST: Combining forward iterative selection and shrinkage in high dimensional sparse linear regression. <i>Statistics and Its Interface</i> , 2009, 2, 341-348.	0.3	15
34	Semiparametric single-index model for estimating optimal individualized treatment strategy. <i>Electronic Journal of Statistics</i> , 2017, 11, 364-384.	0.7	14
35	Sparse meta-analysis with high-dimensional data. <i>Biostatistics</i> , 2016, 17, 205-220.	1.5	13
36	Two-Dimensional Solution Surface for Weighted Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2014, 23, 383-402.	1.7	10

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37	eQTL networks unveil enriched mRNA master integrators downstream of complex disease-associated SNPs. <i>Journal of Biomedical Informatics</i> , 2015, 58, 226-234.	4.3	10
38	Interaction screening by partial correlation. <i>Statistics and Its Interface</i> , 2018, 11, 317-325.	0.3	10
39	Machine Learning Methods-Based Modeling and Optimization of 3-D-Printed Dielectrics Around Monopole Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 4997-5006.	5.1	10
40	Sparse and efficient estimation for partial spline models with increasing dimension. <i>Annals of the Institute of Statistical Mathematics</i> , 2015, 67, 93-127.	0.8	8
41	RKHS-based functional nonparametric regression for sparse and irregular longitudinal data. <i>Canadian Journal of Statistics</i> , 2014, 42, 204-216.	0.9	7
42	A model-free machine learning method for risk classification and survival probability prediction. <i>Stat</i> , 2014, 3, 337-350.	0.4	6
43	Sparse linear regression for optimizing design parameters of double T-shaped monopole antennas. , 2017, , .		6
44	Joint structure selection and estimation in the time-varying coefficient Cox model. <i>Statistica Sinica</i> , 2016, 26, 547-567.	0.3	6
45	Phase II Trial of Chemopreventive Effects of Levonorgestrel on Ovarian and Fallopian Tube Epithelium in Women at High Risk for Ovarian Cancer: An NRG Oncology Group/GOG Study. <i>Cancer Prevention Research</i> , 2019, 12, 401-412.	1.5	5
46	Sparse Penalized Forward Selection for Support Vector Classification. <i>Journal of Computational and Graphical Statistics</i> , 2016, 25, 493-514.	1.7	4
47	Iterative selection using orthogonal regression techniques. <i>Statistical Analysis and Data Mining</i> , 2013, 6, 557-564.	2.8	3
48	binomialRF: interpretable combinatoric efficiency of random forests to identify biomarker interactions. <i>BMC Bioinformatics</i> , 2020, 21, 374.	2.6	3
49	Personalized beyond Precision: Designing Unbiased Gold Standards to Improve Single-Subject Studies of Personal Genome Dynamics from Gene Products. <i>Journal of Personalized Medicine</i> , 2021, 11, 24.	2.5	3
50	Multiclass Probability Estimation With Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2019, 28, 586-595.	1.7	2
51	Model building with likelihood basis pursuit. <i>Optimization Methods and Software</i> , 2004, 19, 577-594.	2.4	1
52	Bayesian Inference of Odds Ratios in Misclassified Binary Data with a Validation Substudy. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2010, 39, 1845-1854.	1.2	1
53	Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. <i>Test</i> , 2016, 25, 47-51.	1.1	0
54	Nonparametric Methods for Big Data Analytics. <i>Springer Handbooks of Computational Statistics</i> , 2018, , 103-124.	0.2	0

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55	Sparse Learning with Non-convex Penalty in Multi-classification. Journal of Data Science, 2021, , 56-74.	0.9	0
56	Support Vector Machine Classification for High Dimensional Microarray Data Analysis, With Applications in Cancer Research. , 2009, , 1-24.		0
57	Discussion on "Doubly sparsity kernel learning with automatic variable selection and data extraction". Statistics and Its Interface, 2018, 11, 425-428.	0.3	0