

Yufeng Liu

List of Publications by Year in descending order

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101
papers

2,952
citations

201674

27
h-index

182427

51
g-index

104
all docs

104
docs citations

104
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Truncated Hinge Loss Support Vector Machines. Journal of the American Statistical Association, 2007, 102, 974-983.	3.1	260
2	Lung Squamous Cell Carcinoma mRNA Expression Subtypes Are Reproducible, Clinically Important, and Correspond to Normal Cell Types. Clinical Cancer Research, 2010, 16, 4864-4875.	7.0	259
3	Statistical Significance of Clustering for High-Dimension, Low-Sample Size Data. Journal of the American Statistical Association, 2008, 103, 1281-1293.	3.1	215
4	Quantile Regression in Reproducing Kernel Hilbert Spaces. Journal of the American Statistical Association, 2007, 102, 255-268.	3.1	148
5	Linear or Nonlinear? Automatic Structure Discovery for Partially Linear Models. Journal of the American Statistical Association, 2011, 106, 1099-1112.	3.1	136
6	Multicategory \tilde{L} -Learning. Journal of the American Statistical Association, 2006, 101, 500-509.	3.1	122
7	Statistical Significance for Hierarchical Clustering. Biometrics, 2017, 73, 811-821.	1.4	122
8	Multicategory \tilde{L} -Learning and Support Vector Machine: Computational Tools. Journal of Computational and Graphical Statistics, 2005, 14, 219-236.	1.7	93
9	Weighted Distance Weighted Discrimination and Its Asymptotic Properties. Journal of the American Statistical Association, 2010, 105, 401-414.	3.1	84
10	Hard or Soft Classification? Large-Margin Unified Machines. Journal of the American Statistical Association, 2011, 106, 166-177.	3.1	81
11	k -Circulant Supersaturated Designs. Technometrics, 2004, 46, 32-43.	1.9	69
12	Probability estimation with machine learning methods for dichotomous and multicategory outcome: Theory. Biometrical Journal, 2014, 56, 534-563.	1.0	67
13	Support vector machines with adaptive penalty. Computational Statistics and Data Analysis, 2007, 51, 6380-6394.	1.2	58
14	Stepwise multiple quantile regression estimation using non-crossing constraints. Statistics and Its Interface, 2009, 2, 299-310.	0.3	58
15	Variable selection for the multicategory SVM via adaptive sup-norm regularization. Electronic Journal of Statistics, 2008, 2, .	0.7	56
16	Variable Selection via A Combination of the L_0 and L_1 Penalties. Journal of Computational and Graphical Statistics, 2007, 16, 782-798.	1.7	53
17	Probability estimation for large-margin classifiers. Biometrika, 2008, 95, 149-167.	2.4	53
18	Adaptive Weighted Learning for Unbalanced Multicategory Classification. Biometrics, 2009, 65, 159-168.	1.4	52

#	ARTICLE	IF	CITATIONS
19	Simultaneous multiple response regression and inverse covariance matrix estimation via penalized Gaussian maximum likelihood. <i>Journal of Multivariate Analysis</i> , 2012, 111, 241-255.	1.0	52
20	Simultaneous multiple non-crossing quantile regression estimation using kernel constraints. <i>Journal of Nonparametric Statistics</i> , 2011, 23, 415-437.	0.9	50
21	Statistical Significance of Clustering Using Soft Thresholding. <i>Journal of Computational and Graphical Statistics</i> , 2015, 24, 975-993.	1.7	45
22	Reinforced Multicategory Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2011, 20, 901-919.	1.7	43
23	Probability estimation with machine learning methods for dichotomous and multicategory outcome: Applications. <i>Biometrical Journal</i> , 2014, 56, 564-583.	1.0	42
24	Multicategory angle-based large-margin classification. <i>Biometrika</i> , 2014, 101, 625-640.	2.4	35
25	The "PepSAVI-MS" Pipeline for Natural Product Bioactive Peptide Discovery. <i>Analytical Chemistry</i> , 2017, 89, 1194-1201.	6.5	34
26	Robust penalized logistic regression with truncated loss functions. <i>Canadian Journal of Statistics</i> , 2011, 39, 300-323.	0.9	33
27	Graph-guided joint prediction of class label and clinical scores for the Alzheimer's disease. <i>Brain Structure and Function</i> , 2016, 221, 3787-3801.	2.3	31
28	Adaptively Weighted Large Margin Classifiers. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 416-432.	1.7	28
29	Functional Robust Support Vector Machines for Sparse and Irregular Longitudinal Data. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 379-395.	1.7	26
30	Sparse Regression Incorporating Graphical Structure Among Predictors. <i>Journal of the American Statistical Association</i> , 2016, 111, 707-720.	3.1	25
31	Robust Model-Free Multiclass Probability Estimation. <i>Journal of the American Statistical Association</i> , 2010, 105, 424-436.	3.1	23
32	Probability-enhanced sufficient dimension reduction for binary classification. <i>Biometrics</i> , 2014, 70, 546-555.	1.4	23
33	Multi-Armed Angle-Based Direct Learning for Estimating Optimal Individualized Treatment Rules With Various Outcomes. <i>Journal of the American Statistical Association</i> , 2020, 115, 678-691.	3.1	23
34	Forecasting emergency department hourly occupancy using time series analysis. <i>American Journal of Emergency Medicine</i> , 2021, 48, 177-182.	1.6	21
35	Optimal Sparse Linear Prediction for Block-missing Multi-modality Data Without Imputation. <i>Journal of the American Statistical Association</i> , 2020, 115, 1406-1419.	3.1	19
36	Estimating spatial covariance using penalised likelihood with weighted L_1 penalty. <i>Journal of Nonparametric Statistics</i> , 2009, 21, 925-942.	0.9	18

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37	Confidence Intervals and Regions for the Lasso by Using Stochastic Variational Inequality Techniques in Optimization. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2017, 79, 589-611.	2.2	18
38	D-learning to estimate optimal individual treatment rules. <i>Electronic Journal of Statistics</i> , 2018, 12, .	0.7	18
39	Joint Estimation of Multiple Precision Matrices with Common Structures. <i>Journal of Machine Learning Research</i> , 2015, 16, 1035-1062.	62.4	18
40	Multi-Task Linear Programming Discriminant Analysis for the Identification of Progressive MCI Individuals. <i>PLoS ONE</i> , 2014, 9, e96458.	2.5	17
41	SigFuge: single gene clustering of RNA-seq reveals differential isoform usage among cancer samples. <i>Nucleic Acids Research</i> , 2014, 42, e113-e113.	14.5	17
42	Principal weighted support vector machines for sufficient dimension reduction in binary classification. <i>Biometrika</i> , 2017, 104, asw057.	2.4	17
43	Estimating Individualized Treatment Rules for Ordinal Treatments. <i>Biometrics</i> , 2018, 74, 924-933.	1.4	17
44	Multicategory Large-Margin Unified Machines. <i>Journal of Machine Learning Research</i> , 2013, 14, 1349-1386.	62.4	17
45	Multiclass Distance-Weighted Discrimination. <i>Journal of Computational and Graphical Statistics</i> , 2013, 22, 953-969.	1.7	16
46	Reinforced Angle-Based Multicategory Support Vector Machines. <i>Journal of Computational and Graphical Statistics</i> , 2016, 25, 806-825.	1.7	16
47	Joint estimation of multiple dependent Gaussian graphical models with applications to mouse genomics. <i>Biometrika</i> , 2016, 103, 493-511.	2.4	15
48	Learning Optimal Distributionally Robust Individualized Treatment Rules. <i>Journal of the American Statistical Association</i> , 2021, 116, 659-674.	3.1	15
49	Robust multicategory support vector machines using difference convex algorithm. <i>Mathematical Programming</i> , 2018, 169, 277-305.	2.4	13
50	A unified data-adaptive framework for high dimensional change point detection. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2020, 82, 933-963.	2.2	12
51	IsoDOT Detects Differential RNA-Isoform Expression/Usage With Respect to a Categorical or Continuous Covariate With High Sensitivity and Specificity. <i>Journal of the American Statistical Association</i> , 2015, 110, 975-986.	3.1	10
52	SPReM: Sparse Projection Regression Model For High-Dimensional Linear Regression. <i>Journal of the American Statistical Association</i> , 2015, 110, 289-302.	3.1	10
53	Graph-based sparse linear discriminant analysis for high-dimensional classification. <i>Journal of Multivariate Analysis</i> , 2019, 171, 250-269.	1.0	9
54	On the Effect and Remedies of Shrinkage on Classification Probability Estimation. <i>American Statistician</i> , 2013, 67, 134-142.	1.6	8

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55	Flexible Locally Weighted Penalized Regression With Applications on Prediction of Alzheimer's Disease Neuroimaging Initiative's Clinical Scores. IEEE Transactions on Medical Imaging, 2019, 38, 1398-1408.	8.9	7
56	Identifying Heterogeneous Effect Using Latent Supervised Clustering With Adaptive Fusion. Journal of Computational and Graphical Statistics, 2021, 30, 43-54.	1.7	7
57	Multicategory Outcome Weighted Margin-based Learning for Estimating Individualized Treatment Rules. Statistica Sinica, 2020, 30, 1857-1879.	0.3	7
58	Simultaneous Clustering and Estimation of Heterogeneous Graphical Models. Journal of Machine Learning Research, 2018, 18, .	62.4	7
59	Adaptively weighted large-margin angle-based classifiers. Journal of Multivariate Analysis, 2018, 166, 282-299.	1.0	6
60	Assessing robustness of classification using an angular breakdown point. Annals of Statistics, 2018, 46, 3362-3389.	2.6	6
61	Joint Skeleton Estimation of Multiple Directed Acyclic Graphs for Heterogeneous Population. Biometrics, 2019, 75, 36-47.	1.4	6
62	Estimation of Individualized Decision Rules Based on an Optimized Covariate-Dependent Equivalent of Random Outcomes. SIAM Journal on Optimization, 2019, 29, 2337-2362.	2.0	6
63	Double sparsity kernel learning with automatic variable selection and data extraction. Statistics and Its Interface, 2018, 11, 401-420.	0.3	6
64	Adaptive estimation with partially overlapping models. Statistica Sinica, 2017, 26, 235-253.	0.3	6
65	Hypothesis testing for band size detection of high-dimensional banded precision matrices. Biometrika, 2014, 101, 477-483.	2.4	5
66	High-Dimensional Precision Medicine From Patient-Derived Xenografts. Journal of the American Statistical Association, 2021, 116, 1140-1154.	3.1	5
67	Masked convolutional neural network for supervised learning problems. Stat, 2020, 9, e290.	0.4	5
68	Non-crossing large-margin probability estimation and its application to robust SVM via preconditioning. Statistical Methodology, 2011, 8, 56-67.	0.5	4
69	Multiple Response Regression for Gaussian Mixture Models with Known Labels. Statistical Analysis and Data Mining, 2012, 5, 493-508.	2.8	4
70	SMAC: Spatial multi-category angle-based classifier for high-dimensional neuroimaging data. NeuroImage, 2018, 175, 230-245.	4.2	4
71	Robust multicategory support matrix machines. Mathematical Programming, 2019, 176, 429-463.	2.4	4
72	Composite large margin classifiers with latent subclasses for heterogeneous biomedical data. Statistical Analysis and Data Mining, 2016, 9, 75-88.	2.8	3

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73	Confidence Intervals for Sparse Penalized Regression With Random Designs. <i>Journal of the American Statistical Association</i> , 2020, 115, 794-809.	3.1	3
74	High-Dimensional Cost-constrained Regression Via Nonconvex Optimization. <i>Technometrics</i> , 2022, 64, 52-64.	1.9	3
75	High dimensional change point inference: Recent developments and extensions. <i>Journal of Multivariate Analysis</i> , 2022, 188, 104833.	1.0	3
76	Asymptotic Properties of Stationary Solutions of Coupled Nonconvex Nonsmooth Empirical Risk Minimization. <i>Mathematics of Operations Research</i> , 2022, 47, 2034-2064.	1.3	3
77	Efficient Learning of Optimal Individualized Treatment Rules for Heteroscedastic or Misspecified Treatment-Free Effect Models. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2022, 84, 440-472.	2.2	3
78	Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. <i>Test</i> , 2016, 25, 44-46.	1.1	2
79	Robust outcome weighted learning for optimal individualized treatment rules. <i>Journal of Biopharmaceutical Statistics</i> , 2019, 29, 606-624.	0.8	2
80	Angle-Based Hierarchical Classification Using Exact Label Embedding. <i>Journal of the American Statistical Association</i> , 2022, 117, 704-717.	3.1	2
81	On Quantile Regression in Reproducing Kernel Hilbert Spaces with Data Sparsity Constraint. <i>Journal of Machine Learning Research</i> , 2016, 17, 1-45.	62.4	2
82	Robust Multicategory Support Vector Machines using Difference Convex Algorithm. <i>Mathematical Programming</i> , 2018, 169, 277-305.	2.4	2
83	Ensemble estimation and variable selection with semiparametric regression models. <i>Biometrika</i> , 2020, 107, 433-448.	2.4	1
84	Model free estimation of graphical model using gene expression data. <i>Annals of Applied Statistics</i> , 2021, 15, 194-207.	1.1	1
85	REC: fast sparse regression-based multicategory classification. <i>Statistics and Its Interface</i> , 2017, 10, 175-185.	0.3	1
86	Estimating individualized treatment rules for treatments with hierarchical structure. <i>Electronic Journal of Statistics</i> , 2022, 16, .	0.7	1
87	On Robustness of Individualized Decision Rules. <i>Journal of the American Statistical Association</i> , 2023, 118, 2143-2157.	3.1	1
88	Flexible Large Margin Classifiers. <i>Frontiers of Statistics</i> , 2010, , 39-71.	0.2	0
89	Comment. <i>Journal of the American Statistical Association</i> , 2016, 111, 942-947.	3.1	0
90	Large-margin classification with multiple decision rules. <i>Statistical Analysis and Data Mining</i> , 2016, 9, 89-105.	2.8	0

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91	A new algorithm for computation of a regularization solution path for reinforced multicategory support vector machines. <i>Canadian Journal of Statistics</i> , 2017, 45, 149-163.	0.9	0
92	Efficient test-based variable selection for high-dimensional linear models. <i>Journal of Multivariate Analysis</i> , 2018, 166, 17-31.	1.0	0
93	Convex Bidirectional Large Margin Classifiers. <i>Technometrics</i> , 2019, 61, 176-186.	1.9	0
94	Composite quantile-based classifiers. <i>Statistical Analysis and Data Mining</i> , 2020, 13, 337-353.	2.8	0
95	An Efficient Algorithm for Minimizing Multi Non-Smooth Component Functions. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 162-170.	1.7	0
96	Rejoinder: Learning Optimal Distributionally Robust Individualized Treatment Rules. <i>Journal of the American Statistical Association</i> , 2021, 116, 699-707.	3.1	0
97	Prioritizing Autism Risk Genes Using Personalized Graphical Models Estimated From Single-Cell RNA-seq Data. <i>Journal of the American Statistical Association</i> , 2022, 117, 38-51.	3.1	0
98	Recovery of sums of sparse and dense signals by incorporating graphical structure among predictors. <i>Canadian Journal of Statistics</i> , 0, , .	0.9	0
99	Utility-based weighted multicategory robust support vector machines. <i>Statistics and Its Interface</i> , 2010, 3, 465-475.	0.3	0
100	Significance analysis for pairwise variable selection in classification. <i>Statistics and Its Interface</i> , 2014, 7, 263-274.	0.3	0
101	Sample-wise Combined Missing Effect Model with Penalization. <i>Journal of Computational and Graphical Statistics</i> , 0, , 1-32.	1.7	0