Yufeng Liu

List of Publications by Year
in descending order

		201674	182427
101 papers	2,952 citations	27 h-index	51 g-index
104 all docs	104 docs citations	104 times ranked	3519 citing authors

#	Article	IF	Citations
1	On Robustness of Individualized Decision Rules. Journal of the American Statistical Association, 2023, 118, 2143-2157.	3.1	1
2	Angle-Based Hierarchical Classification Using Exact Label Embedding. Journal of the American Statistical Association, 2022, 117, 704-717.	3.1	2
3	High-Dimensional Cost-constrained Regression Via Nonconvex Optimization. Technometrics, 2022, 64, 52-64.	1.9	3
4	Prioritizing Autism Risk Genes Using Personalized Graphical Models Estimated From Single-Cell RNA-seq Data. Journal of the American Statistical Association, 2022, 117, 38-51.	3.1	0
5	High dimensional change point inference: Recent developments and extensions. Journal of Multivariate Analysis, 2022, 188, 104833.	1.0	3
6	Asymptotic Properties of Stationary Solutions of Coupled Nonconvex Nonsmooth Empirical Risk Minimization. Mathematics of Operations Research, 2022, 47, 2034-2064.	1.3	3
7	Estimating individualized treatment rules for treatments with hierarchical structure. Electronic Journal of Statistics, 2022, 16, .	0.7	1
8	Efficient Learning of Optimal Individualized Treatment Rules for Heteroscedastic or Misspecified Treatment-Free Effect Models. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2022, 84, 440-472.	2.2	3
9	High-Dimensional Precision Medicine From Patient-Derived Xenografts. Journal of the American Statistical Association, 2021, 116, 1140-1154.	3.1	5
10	Identifying Heterogeneous Effect Using Latent Supervised Clustering With Adaptive Fusion. Journal of Computational and Graphical Statistics, 2021, 30, 43-54.	1.7	7
11	An Efficient Algorithm for Minimizing Multi Non-Smooth Component Functions. Journal of Computational and Graphical Statistics, 2021, 30, 162-170.	1.7	0
12	Learning Optimal Distributionally Robust Individualized Treatment Rules. Journal of the American Statistical Association, 2021, 116, 659-674.	3.1	15
13	Model free estimation of graphical model using gene expression data. Annals of Applied Statistics, 2021, 15, 194-207.	1.1	1
14	Rejoinder: Learning Optimal Distributionally Robust Individualized Treatment Rules. Journal of the American Statistical Association, 2021, 116, 699-707.	3.1	0
15	Forecasting emergency department hourly occupancy using time series analysis. American Journal of Emergency Medicine, 2021, 48, 177-182.	1.6	21
16	Multi-Armed Angle-Based Direct Learning for Estimating Optimal Individualized Treatment Rules With Various Outcomes. Journal of the American Statistical Association, 2020, 115, 678-691.	3.1	23
17	Optimal Sparse Linear Prediction for Block-missing Multi-modality Data Without Imputation. Journal of the American Statistical Association, 2020, 115, 1406-1419.	3.1	19
18	Confidence Intervals for Sparse Penalized Regression With Random Designs. Journal of the American Statistical Association, 2020, 115, 794-809.	3.1	3

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19	Masked convolutional neural network for supervised learning problems. Stat, 2020, 9, e290.	0.4	5
20	Composite quantile‐based classifiers. Statistical Analysis and Data Mining, 2020, 13, 337-353.	2.8	0
21	A unified data‐adaptive framework for high dimensional change point detection. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2020, 82, 933-963.	2.2	12
22	Ensemble estimation and variable selection with semiparametric regression models. Biometrika, 2020, 107, 433-448.	2.4	1
23	Multicategory Outcome Weighted Margin-based Learning for Estimating Individualized Treatment Rules. Statistica Sinica, 2020, 30, 1857-1879.	0.3	7
24	Joint Skeleton Estimation of Multiple Directed Acyclic Graphs for Heterogeneous Population. Biometrics, 2019, 75, 36-47.	1.4	6
25	Robust outcome weighted learning for optimal individualized treatment rules. Journal of Biopharmaceutical Statistics, 2019, 29, 606-624.	0.8	2
26	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
27	Robust multicategory support matrix machines. Mathematical Programming, 2019, 176, 429-463.	2.4	4
28	Convex Bidirectional Large Margin Classifiers. Technometrics, 2019, 61, 176-186.	1.9	0
29	Graph-based sparse linear discriminant analysis for high-dimensional classification. Journal of Multivariate Analysis, 2019, 171, 250-269.	1.0	9
30	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
31	Estimating Individualized Treatment Rules for Ordinal Treatments. Biometrics, 2018, 74, 924-933.	1.4	17
32	SMAC: Spatial multi-category angle-based classifier for high-dimensional neuroimaging data. NeuroImage, 2018, 175, 230-245.	4.2	4
33	Efficient test-based variable selection for high-dimensional linear models. Journal of Multivariate Analysis, 2018, 166, 17-31.	1.0	0
34	Adaptively weighted large-margin angle-based classifiers. Journal of Multivariate Analysis, 2018, 166, 282-299.	1.0	6
35	Robust multicategory support vector machines using difference convex algorithm. Mathematical Programming, 2018, 169, 277-305.	2.4	13
36	Assessing robustness of classification using an angular breakdown point. Annals of Statistics, 2018, 46, 3362-3389.	2.6	6

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37	D-learning to estimate optimal individual treatment rules. Electronic Journal of Statistics, 2018, 12, .	0.7	18
38	Double sparsity kernel learning with automatic variable selection and data extraction. Statistics and Its Interface, 2018, 11, 401-420.	0.3	6
39	Robust Multicategory Support Vector Machines using Difference Convex Algorithm. Mathematical Programming, 2018, 169, 277-305.	2.4	2
40	Simultaneous Clustering and Estimation of Heterogeneous Graphical Models. Journal of Machine Learning Research, 2018, 18, .	62.4	7
41	Confidence Intervals and Regions for the Lasso by Using Stochastic Variational Inequality Techniques in Optimization. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2017, 79, 589-611.	2.2	18
42	Statistical Significance for Hierarchical Clustering. Biometrics, 2017, 73, 811-821.	1.4	122
43	A new algorithm for computation of a regularization solution path for reinforced multicategory support vector machines. Canadian Journal of Statistics, 2017, 45, 149-163.	0.9	0
44	The â€œPepSAVI-MSâ€•Pipeline for Natural Product Bioactive Peptide Discovery. Analytical Chemistry, 2017, 89, 1194-1201.	6.5	34
45	Principal weighted support vector machines for sufficient dimension reduction in binary classification. Biometrika, 2017, 104, asw057.	2.4	17
46	Adaptive estimation with partially overlapping models. Statistica Sinica, 2017, 26, 235-253.	0.3	6
47	REC: fast sparse regression-based multicategory classification. Statistics and Its Interface, 2017, 10, 175-185.	0.3	1
48	Composite large margin classifiers with latent subclasses for heterogeneous biomedical data. Statistical Analysis and Data Mining, 2016, 9, 75-88.	2.8	3
49	Comment. Journal of the American Statistical Association, 2016, 111, 942-947.	3.1	0
50	Joint estimation of multiple dependent Gaussian graphical models with applications to mouse genomics. Biometrika, 2016, 103, 493-511.	2.4	15
51	Comments on: Probability enhanced effective dimension reduction for classifying sparse functional data. Test, 2016, 25, 44-46.	1.1	2
52	Largeâ€margin classification with multiple decision rules. Statistical Analysis and Data Mining, 2016, 9, 89-105.	2.8	0
53	Graph-guided joint prediction of class label and clinical scores for the Alzheimerâ€™s disease. Brain Structure and Function, 2016, 221, 3787-3801.	2.3	31
54	Reinforced Angle-Based Multicategory Support Vector Machines. Journal of Computational and Graphical Statistics, 2016, 25, 806-825.	1.7	16

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55	Sparse Regression Incorporating Graphical Structure Among Predictors. Journal of the American Statistical Association, 2016, 111, 707-720.	3.1	25
56	On Quantile Regression in Reproducing Kernel Hilbert Spaces with Data Sparsity Constraint. Journal of Machine Learning Research, 2016, 17, 1-45.	62.4	2
57	IsoDOT Detects Differential RNA-Isoform Expression/Usage With Respect to a Categorical or Continuous Covariate With High Sensitivity and Specificity. Journal of the American Statistical Association, 2015, 110, 975-986.	3.1	10
58	Statistical Significance of Clustering Using Soft Thresholding. Journal of Computational and Graphical Statistics, 2015, 24, 975-993.	1.7	45
59	SPReM: Sparse Projection Regression Model For High-Dimensional Linear Regression. Journal of the American Statistical Association, 2015, 110, 289-302.	3.1	10
60	Joint Estimation of Multiple Precision Matrices with Common Structures. Journal of Machine Learning Research, 2015, 16, 1035-1062.	62.4	18
61	Multi-Task Linear Programming Discriminant Analysis for the Identification of Progressive MCI Individuals. PLoS ONE, 2014, 9, e96458.	2.5	17
62	SigFuge: single gene clustering of RNA-seq reveals differential isoform usage among cancer samples. Nucleic Acids Research, 2014, 42, e113-e113.	14.5	17
63	Probability†enhanced sufficient dimension reduction for binary classification. Biometrics, 2014, 70, 546-555.	1.4	23
64	Probability estimation with machine learning methods for dichotomous and multicategory outcome: Theory. Biometrical Journal, 2014, 56, 534-563.	1.0	67
65	Multicategory angle-based large-margin classification. Biometrika, 2014, 101, 625-640.	2.4	35
66	Probability estimation with machine learning methods for dichotomous and multicategory outcome: Applications. Biometrical Journal, 2014, 56, 564-583.	1.0	42
67	Hypothesis testing for band size detection of high-dimensional banded precision matrices. Biometrika, 2014, 101, 477-483.	2.4	5
68	Significance analysis for pairwise variable selection in classification. Statistics and Its Interface, 2014, 7, 263-274.	0.3	0
69	Functional Robust Support Vector Machines for Sparse and Irregular Longitudinal Data. Journal of Computational and Graphical Statistics, 2013, 22, 379-395.	1.7	26
70	On the Effect and Remedies of Shrinkage on Classification Probability Estimation. American Statistician, 2013, 67, 134-142.	1.6	8
71	Adaptively Weighted Large Margin Classifiers. Journal of Computational and Graphical Statistics, 2013, 22, 416-432.	1.7	28
72	Multiclass Distance-Weighted Discrimination. Journal of Computational and Graphical Statistics, 2013, 22, 953-969.	1.7	16

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73	Multicategory Large-Margin Unified Machines. Journal of Machine Learning Research, 2013, 14, 1349-1386.	62.4	17
74	Multiple Response Regression for Gaussian Mixture Models with Known Labels. Statistical Analysis and Data Mining, 2012, 5, 493-508.	2.8	4
75	Simultaneous multiple response regression and inverse covariance matrix estimation via penalized Gaussian maximum likelihood. Journal of Multivariate Analysis, 2012, 111, 241-255.	1.0	52
76	Linear or Nonlinear? Automatic Structure Discovery for Partially Linear Models. Journal of the American Statistical Association, 2011, 106, 1099-1112.	3.1	136
77	Robust penalized logistic regression with truncated loss functions. Canadian Journal of Statistics, 2011, 39, 300-323.	0.9	33
78	Non-crossing large-margin probability estimation and its application to robust SVM via preconditioning. Statistical Methodology, 2011, 8, 56-67.	0.5	4
79	Simultaneous multiple non-crossing quantile regression estimation using kernel constraints. Journal of Nonparametric Statistics, 2011, 23, 415-437.	0.9	50
80	Reinforced Multicategory Support Vector Machines. Journal of Computational and Graphical Statistics, 2011, 20, 901-919.	1.7	43
81	Hard or Soft Classification? Large-Margin Unified Machines. Journal of the American Statistical Association, 2011, 106, 166-177.	3.1	81
82	Flexible Large Margin Classifiers. Frontiers of Statistics, 2010, , 39-71.	0.2	0
83	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
84	Weighted Distance Weighted Discrimination and Its Asymptotic Properties. Journal of the American Statistical Association, 2010, 105, 401-414.	3.1	84
85	Robust Model-Free Multiclass Probability Estimation. Journal of the American Statistical Association, 2010, 105, 424-436.	3.1	23
86	Utility-based weighted multicategory robust support vector machines. Statistics and Its Interface, 2010, 3, 465-475.	0.3	0
87	Estimating spatial covariance using penalised likelihood with weighted L_1 penalty. Journal of Nonparametric Statistics, 2009, 21, 925-942.	0.9	18
88	Adaptive Weighted Learning for Unbalanced Multicategory Classification. Biometrics, 2009, 65, 159-168.	1.4	52
89	Stepwise multiple quantile regression estimation using non-crossing constraints. Statistics and Its Interface, 2009, 2, 299-310.	0.3	58
90	Statistical Significance of Clustering for High-Dimension, Low–Sample Size Data. Journal of the American Statistical Association, 2008, 103, 1281-1293.	3.1	215

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91	Probability estimation for large-margin classifiers. Biometrika, 2008, 95, 149-167.	2.4	53
92	Variable selection for the multicategory SVM via adaptive sup-norm regularization. Electronic Journal of Statistics, 2008, 2, .	0.7	56
93	Variable Selection via A Combination of theL0andL1Penalties. Journal of Computational and Graphical Statistics, 2007, 16, 782-798.	1.7	53
94	Quantile Regression in Reproducing Kernel Hilbert Spaces. Journal of the American Statistical Association, 2007, 102, 255-268.	3.1	148
95	Robust Truncated Hinge Loss Support Vector Machines. Journal of the American Statistical Association, 2007, 102, 974-983.	3.1	260
96	Support vector machines with adaptive penalty. Computational Statistics and Data Analysis, 2007, 51, 6380-6394.	1.2	58
97	Multicategory Ï̂-Learning. Journal of the American Statistical Association, 2006, 101, 500-509.	3.1	122
98	Multicategory Ï̂-Learning and Support Vector Machine: Computational Tools. Journal of Computational and Graphical Statistics, 2005, 14, 219-236.	1.7	93
99	k-Circulant Supersaturated Designs. Technometrics, 2004, 46, 32-43.	1.9	69
100	Recovery of sums of sparse and dense signals by incorporating graphical structure among predictors. Canadian Journal of Statistics, 0, , .	0.9	0
101	Sample-wise Combined Missing Effect Model with Penalization. Journal of Computational and Graphical Statistics, 0, , 1-32.	1.7	0