Wei-Yin Loh

List of Publications by Year
in descending order

74 papers	5,603 citations	159585 30 h-index	88630 70 g-index
81 all docs	81 docs citations	81 times ranked	5662 citing authors

#	Article	IF	Citations
1	Classification and regression trees. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2011, 1, 14-23.	6.8	1,363
2	Title is missing!. Machine Learning, 2000, 40, 203-228.	5.4	862
3	Fifty Years of Classification and Regression Trees. International Statistical Review, 2014, 82, 329-348.	1.9	387
4	Classification Trees With Unbiased Multiway Splits. Journal of the American Statistical Association, 2001, 96, 589-604.	3.1	294
5	Tree-Structured Classification via Generalized Discriminant Analysis. Journal of the American Statistical Association, 1988, 83, 715-725.	3.1	252
6	Gender, race, and education differences in abstinence rates among participants in two randomized smoking cessation trials. Nicotine and Tobacco Research, 2010, 12, 647-657.	2.6	181
7	Calibrating Confidence Coefficients. Journal of the American Statistical Association, 1987, 82, 155-162.	3.1	162
8	A comparison of tests of equality of variances. Computational Statistics and Data Analysis, 1996, 22, 287-301.	1.2	140
9	A regression tree approach to identifying subgroups with differential treatmentâ€‰effects. Statistics in Medicine, 2015, 34, 1818-1833.	1.6	127
10	BOATâ€”optimistic decision tree construction. SIGMOD Record, 1999, 28, 169-180.	1.2	113
11	Improving the precision of classification trees. Annals of Applied Statistics, 2009, 3, .	1.1	109
12	Tobacco withdrawal components and their relations with cessation success. Psychopharmacology, 2011, 216, 569-578.	3.1	103
13	LOTUS: An Algorithm for Building Accurate and Comprehensible Logistic Regression Trees. Journal of Computational and Graphical Statistics, 2004, 13, 826-852.	1.7	100
14	Identifying effective intervention components for smoking cessation: a factorial screening experiment. Addiction, 2016, 111, 129-141.	3.3	73
15	Comparative effectiveness of intervention components for producing longâ€term abstinence from smoking: a factorial screening experiment. Addiction, 2016, 111, 142-155.	3.3	73
16	Classification Trees With Bivariate Linear Discriminant Node Models. Journal of Computational and Graphical Statistics, 2003, 12, 512-530.	1.7	72
17	Implementing Clinical Research Using Factorial Designs: A Primer. Behavior Therapy, 2017, 48, 567-580.	2.4	70
18	Tree-Structured Classification Via Generalized Discriminant Analysis. Journal of the American Statistical Association, 1988, 83, 715.	3.1	58

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19	A New Method for Testing Separate Families of Hypotheses. Journal of the American Statistical Association, 1985, 80, 362-368.	3.1	57
20	Comparative effectiveness of motivation phase intervention components for use with smokers unwilling to quit: a factorial screening experiment. Addiction, 2016, 111, 117-128.	3.3	55
21	Consistent Variable Selection in Linear Models. Journal of the American Statistical Association, 1995, 90, 151-156.	3.1	49
22	Using Decision Tree Analysis to Identify Risk Factors for Relapse to Smoking. Substance Use and Misuse, 2011, 46, 492-510.	1.4	45
23	Enhancing the effectiveness of smoking treatment research: conceptual bases and progress. Addiction, 2016, 111, 107-116.	3.3	44
24	Regression trees for longitudinal and multiresponse data. Annals of Applied Statistics, 2013, 7, .	1.1	43
25	Subgroup identification for precision medicine: A comparative review of 13 methods. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2019, 9, e1326.	6.8	38
26	Tree-Structured Proportional Hazards Regression Modeling. Biometrics, 1994, 50, 471.	1.4	37
27	Calibrating Confidence Coefficients. Journal of the American Statistical Association, 1987, 82, 155.	3.1	37
28	Decision Tree Approach to Classify and Quantify Cumulative Impact of Change Orders on Productivity. Journal of Computing in Civil Engineering, 2004, 18, 132-144.	4.7	36
29	A Framework for Measuring Differences in Data Characteristics. Journal of Computer and System Sciences, 2002, 64, 542-578.	1.2	35
30	Should All Smokers Use Combination Smoking Cessation Pharmacotherapy? Using Novel Analytic Methods to Detect Differential Treatment Effects Over 8 Weeks of Pharmacotherapy. Nicotine and Tobacco Research, 2012, 14, 131-141.	2.6	32
31	Some modifications of levene's test of variance homogeneity. Journal of Statistical Computation and Simulation, 1987, 28, 213-226.	1.2	31
32	Visualizable and interpretable regression models with good prediction power. IIE Transactions, 2007, 39, 565-579.	2.1	31
33	Identification of subgroups with differential treatment effects for longitudinal and multiresponse variables. Statistics in Medicine, 2016, 35, 4837-4855.	1.6	26
34	Smoking Cessation and the Risk of Diabetes Mellitus and Impaired Fasting Glucose: Three-Year Outcomes after a Quit Attempt. PLoS ONE, 2014, 9, e98278.	2.5	24
35	Identification of active contrasts in unreplicated factorial experiments. Computational Statistics and Data Analysis, 1992, 14, 135-148.	1.2	23
36	A Hybrid Tree Approach to Modeling Alternate Route Choice Behavior With Online Information. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2010, 14, 209-219.	4.2	20

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37	Predictors of adherence to nicotine replacement therapy: Machine learning evidence that perceived need predicts medication use. Drug and Alcohol Dependence, 2019, 205, 107668.	3.2	19
38	Toward precision smoking cessation treatment I: Moderator results from a factorial experiment. Drug and Alcohol Dependence, 2017, 171, 59-65.	3.2	18
39	Survival modeling through recursive stratification. Computational Statistics and Data Analysis, 1991, 12, 295-313.	1.2	16
40	Treeâ€structured classifiers. Wiley Interdisciplinary Reviews: Computational Statistics, 2010, 2, 364-369.	3.9	16
41	Consistent Variable Selection in Linear Models. Journal of the American Statistical Association, 1995, 90, 151.	3.1	16
42	Bounds on AREs of Tests Following Box-Cox Transformations. Annals of Statistics, 1992, 20, 1485.	2.6	15
43	Improved Estimators for Ratios of Variance Components. Journal of the American Statistical Association, 1986, 81, 699-702.	3.1	11
44	Asymptotic theory for Boxâ€“Cox transformations in linear models. Statistics and Probability Letters, 2001, 51, 337-343.	0.7	11
45	Variable Importance Scores. Journal of Data Science, 2021, , 569-592.	0.9	11
46	Logistic Regression Tree Analysis. , 2006, , 537-549.		11
47	A New Method for Testing Separate Families of Hypotheses. Journal of the American Statistical Association, 1985, 80, 362.	3.1	11
48	Extrapolation errors in linear model trees. ACM Transactions on Knowledge Discovery From Data, 2007, 1, 6.	3.5	10
49	Variable Selection for Classification and Regression in Large p, Small n Problems. Lecture Notes in Statistics, 2012, , 135-159.	0.2	10
50	Regression by Parts: Fitting Visually Interpretable Models with GUIDE. , 2008, , 447-469.		10
51	Does the Correlation Coefficient Really Measure the Degree of Clustering around a Line?. Journal of Educational Statistics, 1987, 12, 235.	0.9	9
52	Bootstrapping binomial confidence intervals. Journal of Statistical Planning and Inference, 1995, 43, 355-380.	0.6	9
53	Prediction interval estimation in transformed linear models. Statistics and Probability Letters, 2001, 51, 345-350.	0.7	9
54	Regression tree models for designed experiments. , 2006, , 210-228.		9

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55	Discussion: Theoretical Comparison of Bootstrap Confidence Intervals. Annals of Statistics, 1988, 16, 972.	2.6	8
56	Development of New Performance Measure for Winter Maintenance by Using Vehicle Speed Data. Transportation Research Record, 2008, 2055, 89-98.	1.9	8
57	Quantifying SST errors from an OGCM in relation to atmospheric forcing variables. Ocean Modelling, 2009, 29, 43-57.	2.4	8
58	Subgroups from regression trees with adjustment for prognostic effects and postselection inference. Statistics in Medicine, 2019, 38, 545-557.	1.6	8
59	Improved Estimators for Ratios of Variance Components. Journal of the American Statistical Association, 1986, 81, 699.	3.1	8
60	Machine learning models of tobacco susceptibility and current use among adolescents from 97 countries in the Global Youth Tobacco Survey, 2013-2017. PLOS Global Public Health, 2021, 1, e0000060.	1.6	6
61	Better Bootstrap Confidence Intervals: Comment. Journal of the American Statistical Association, 1987, 82, 188.	3.1	5
62	Bias and convergence rate of the coverage probability of prediction intervals in Boxâ€“Cox transformed linear models. Journal of Statistical Planning and Inference, 2006, 136, 3614-3624.	0.6	5
63	Strong unimodality and scale mixtures. Annals of the Institute of Statistical Mathematics, 1984, 36, 441-449.	0.8	4
64	Wisconsin Method for Probing Portland Cement Concrete Pavement for Thickness. Transportation Research Record, 2011, 2228, 99-107.	1.9	4
65	Testing multivariate normality by simulation. Journal of Statistical Computation and Simulation, 1986, 26, 243-252.	1.2	3
66	Uncertainty Reduction in Multi-Evaluator Decision Making. Journal of Computing in Civil Engineering, 2012, 26, 105-112.	4.7	3
67	Reducing Bias and Uncertainty in Multievaluator Multicriterion Decision Making. Journal of Computing in Civil Engineering, 2013, 27, 167-176.	4.7	3
68	A Machine-Learning Classification Tree Model of Perceived Organizational Performance in U.S. Federal Government Health Agencies. Sustainability, 2021, 13, 10329.	3.2	3
69	Uniform robustness against nonnormality of the t and f tests. Communications in Statistics - Theory and Methods, 1990, 19, 3707-3723.	1.0	2
70	The GUIDE Approach to Subgroup Identification. Emerging Topics in Statistics and Biostatistics, 2020, , 147-165.	0.1	2
71	The cauchy mean value property for M-estimates. Journal of Statistical Planning and Inference, 1985, 12, 265-267.	0.6	0
72	Consistency of the bootstrap for the ransformed two-samplet-test. Communications in Statistics - Theory and Methods, 1991, 20, 997-1014.	1.0	0

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73	Probing Portland Cement Concrete Pavement for Thickness Determination in Wisconsin. Transportation Research Record, 2013, 2347, 41-51.	1.9	0
74	Bias and variance reduction in estimation of model dimension. Proceedings of the American Mathematical Society, 1994, 122, 1263-1263.	0.8	0