

Bruce G Lindsay

List of Publications by Year in descending order

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87
papers

5,613
citations

126907

33
h-index

82547

72
g-index

93
all docs

93
docs citations

93
times ranked

3535
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixture Models. NSF-CBMS Regional Conference Series in Probability and Statistics, 1995, , .	0.1	675
2	Widespread genome duplications throughout the history of flowering plants. <i>Genome Research</i> , 2006, 16, 738-749.	5.5	664
3	The Geometry of Mixture Likelihoods: A General Theory. <i>Annals of Statistics</i> , 1983, 11, 86.	2.6	470
4	Improving generalised estimating equations using quadratic inference functions. <i>Biometrika</i> , 2000, 87, 823-836.	2.4	336
5	Efficiency Versus Robustness: The Case for Minimum Hellinger Distance and Related Methods. <i>Annals of Statistics</i> , 1994, 22, 1081.	2.6	334
6	Semiparametric Estimation in the Rasch Model and Related Exponential Response Models, Including a Simple Latent Class Model for Item Analysis. <i>Journal of the American Statistical Association</i> , 1991, 86, 96-107.	3.1	229
7	The distribution of the likelihood ratio for mixtures of densities from the one-parameter exponential family. <i>Annals of the Institute of Statistical Mathematics</i> , 1994, 46, 373-388.	0.8	174
8	The Geometry of Mixture Likelihoods, Part II: The Exponential Family. <i>Annals of Statistics</i> , 1983, 11, 783.	2.6	168
9	The topography of multivariate normal mixtures. <i>Annals of Statistics</i> , 2005, 33, 2042.	2.6	130
10	Minimum disparity estimation for continuous models: Efficiency, distributions and robustness. <i>Annals of the Institute of Statistical Mathematics</i> , 1994, 46, 683-705.	0.8	127
11	Monotonicity of quadratic-approximation algorithms. <i>Annals of the Institute of Statistical Mathematics</i> , 1988, 40, 641-663.	0.8	119
12	Computer-Assisted Analysis of Mixtures (C.A.MAN): Statistical Algorithms. <i>Biometrics</i> , 1992, 48, 283.	1.4	112
13	Conditional score functions: Some optimality results. <i>Biometrika</i> , 1982, 69, 503-512.	2.4	100
14	Weighted Likelihood Equations with Bootstrap Root Search. <i>Journal of the American Statistical Association</i> , 1998, 93, 740-750.	3.1	96
15	Moment Matrices: Applications in Mixtures. <i>Annals of Statistics</i> , 1989, 17, .	2.6	88
16	A Semiparametric Mixture Approach to Case-Control Studies with Errors in Covariables. <i>Journal of the American Statistical Association</i> , 1996, 91, 722-732.	3.1	87
17	Application of Maximum Likelihood Methods to Population Genetic Data for the Estimation of Individual Fertilities. <i>Biometrics</i> , 1989, 45, 363.	1.4	81
18	A Penalized Nonparametric Maximum Likelihood Approach to Species Richness Estimation. <i>Journal of the American Statistical Association</i> , 2005, 100, 942-959.	3.1	73

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19	Bayesian Mixture Labeling by Highest Posterior Density. Journal of the American Statistical Association, 2009, 104, 758-767.	3.1	71
20	EST clustering error evaluation and correction. Bioinformatics, 2004, 20, 2973-2984.	4.1	68
21	On second-order optimality of the observed Fisher information. Annals of Statistics, 1997, 25, 2172.	2.6	65
22	Residual Diagnostics for Mixture Models. Journal of the American Statistical Association, 1992, 87, 785-794.	3.1	61
23	Weighted likelihood estimating equations: The discrete case with applications to logistic regression. Journal of Statistical Planning and Inference, 1997, 57, 215-232.	0.6	59
24	Multivariate Normal Mixtures: A Fast Consistent Method of Moments. Journal of the American Statistical Association, 1993, 88, 468-476.	3.1	54
25	A review of semiparametric mixture models. Journal of Statistical Planning and Inference, 1995, 47, 29-39.	0.6	54
26	Moment-Based Approximations of Distributions Using Mixtures: Theory and Applications. Annals of the Institute of Statistical Mathematics, 2000, 52, 215-230.	0.8	50
27	Inference Functions and Quadratic Score Tests. Statistical Science, 2003, 18, 394.	2.8	46
28	Estimating the number of classes. Annals of Statistics, 2007, 35, 917.	2.6	46
29	Building adaptive estimating equations when inverse of covariance estimation is difficult. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2003, 65, 127-142.	2.2	42
30	Alternative EM methods for nonparametric finite mixture models. Biometrika, 2001, 88, 535-550.	2.4	40
31	Using Empirical Partially Bayes Inference for Increased Efficiency. Annals of Statistics, 1985, 13, 914.	2.6	36
32	On the Determinants of Moment Matrices. Annals of Statistics, 1989, 17, 711.	2.6	34
33	A Poisson model for the coverage problem with a genomic application. Biometrika, 2002, 89, 669-682.	2.4	34
34	A Report on the Future of Statistics. Statistical Science, 2004, 19, 387.	2.8	34
35	Semiparametric Estimation in the Rasch Model and Related Exponential Response Models, Including a Simple Latent Class Model for Item Analysis. Journal of the American Statistical Association, 1991, 86, 96.	3.1	34
36	A Unified Treatment of Integer Parameter Models. Journal of the American Statistical Association, 1987, 82, 758-764.	3.1	33

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37	Quadratic distances on probabilities: A unified foundation. <i>Annals of Statistics</i> , 2008, 36, .	2.6	32
38	Model Selection in High Dimensions: A Quadratic-Risk-Based Approach. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2008, 70, 95-118.	2.2	31
39	Weighted Likelihood Equations with Bootstrap Root Search. <i>Journal of the American Statistical Association</i> , 1998, 93, 740.	3.1	31
40	Uniqueness of estimation and identifiability in mixture models. <i>Canadian Journal of Statistics</i> , 1993, 21, 139-147.	0.9	29
41	Projected score methods for approximating conditional scores. <i>Biometrika</i> , 1996, 83, 1-13.	2.4	25
42	Testing for the number of components in a mixture of normal distributions using moment estimators. <i>Computational Statistics and Data Analysis</i> , 1994, 17, 473-492.	1.2	24
43	Gene capture prediction and overlap estimation in EST sequencing from one or multiple libraries. <i>BMC Bioinformatics</i> , 2005, 6, 300.	2.6	24
44	A New Index of Fit Based on Mixture Methods for the Analysis of Contingency Tables. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1994, 56, 623-639.	0.7	23
45	Exponential Family Mixture Models (with Least-Squares Estimators). <i>Annals of Statistics</i> , 1986, 14, 124.	2.6	22
46	Model Assessment Tools for a Model False World. <i>Statistical Science</i> , 2009, 24, .	2.8	22
47	A Semiparametric Mixture Approach to Case-Control Studies With Errors in Covariables. <i>Journal of the American Statistical Association</i> , 1996, 91, 722.	3.1	21
48	Measuring the relative effectiveness of moment estimators as starting values in maximizing likelihoods. <i>Computational Statistics and Data Analysis</i> , 1994, 17, 493-507.	1.2	20
49	Projections on cones, chi-bar squared distributions, and Weyl's formula. <i>Statistics and Probability Letters</i> , 1997, 32, 367-376.	0.7	20
50	The residual adjustment function and weighted likelihood: a graphical interpretation of robustness of minimum disparity estimators. <i>Computational Statistics and Data Analysis</i> , 2002, 39, 21-33.	1.2	20
51	Residual Diagnostics for Mixture Models. <i>Journal of the American Statistical Association</i> , 1992, 87, 785.	3.1	19
52	Moments Determine the Tail of a Distribution (But Not Much Else). <i>American Statistician</i> , 2000, 54, 248.	1.6	16
53	Projection pursuit via white noise matrices. <i>Sankhya B</i> , 2010, 72, 123-153.	0.9	16
54	A computational strategy for doubly smoothed MLE exemplified in the normal mixture model. <i>Computational Statistics and Data Analysis</i> , 2010, 54, 1930-1941.	1.2	16

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55	Highly Efficient Aggregate Unbiased Estimating Functions Approach for Correlated Data With Missing at Random. <i>Journal of the American Statistical Association</i> , 2010, 105, 194-204.	3.1	16
56	Kernels, Degrees of Freedom, and Power Properties of Quadratic Distance Goodness-of-Fit Tests. <i>Journal of the American Statistical Association</i> , 2014, 109, 395-410.	3.1	16
57	Tests and diagnostics for heterogeneity in the species problem. <i>Computational Statistics and Data Analysis</i> , 2003, 41, 389-398.	1.2	14
58	An exponential partial prior for improving nonparametric maximum likelihood estimation in mixture models. <i>Statistical Methodology</i> , 2008, 5, 30-45.	0.5	14
59	Building and using semiparametric tolerance regions for parametric multinomial models. <i>Annals of Statistics</i> , 2009, 37, .	2.6	14
60	Statistical Distances and Their Role in Robustness. <i>ICSA Book Series in Statistics</i> , 2017, , 3-26.	0.2	14
61	Errors in Inspection: Integer Parameter Maximum Likelihood in a Finite Population. <i>Journal of the American Statistical Association</i> , 1985, 80, 879-885.	3.1	12
62	The iteratively reweighted estimating equation in minimum distance problems. <i>Computational Statistics and Data Analysis</i> , 2004, 45, 105-124.	1.2	12
63	Moment-based oscillation properties of mixture models. <i>Annals of Statistics</i> , 1997, 25, .	2.6	10
64	Multivariate Normal Mixtures: A Fast Consistent Method of Moments. <i>Journal of the American Statistical Association</i> , 1993, 88, 468.	3.1	9
65	Fisher information matrix: A tool for dimension reduction, projection pursuit, independent component analysis, and more. <i>Canadian Journal of Statistics</i> , 2012, 40, 712-730.	0.9	8
66	A Locally Convolved Cluster Model for Nucleosome Positioning Signals in Chemical Maps. <i>Journal of the American Statistical Association</i> , 2014, 109, 48-62.	3.1	8
67	Improving cross-validated bandwidth selection using subsampling-extrapolation techniques. <i>Computational Statistics and Data Analysis</i> , 2015, 89, 51-71.	1.2	8
68	Building mixture trees from binary sequence data. <i>Biometrika</i> , 2006, 93, 843-860.	2.4	7
69	Empirical identifiability in finite mixture models. <i>Annals of the Institute of Statistical Mathematics</i> , 2015, 67, 745-772.	0.8	7
70	A Simple and Accurate Method for Approximate Conditional Inference Applied to Exponential Family Models. <i>Journal of the Royal Statistical Society Series B: Methodological</i> , 1996, 58, 177-188.	0.7	6
71	Aitken-based acceleration methods for assessing convergence of multilayer neural networks. <i>IEEE Transactions on Neural Networks</i> , 2001, 12, 998-1012.	4.2	6
72	Convergence of the EM algorithm for continuous mixing distributions. <i>Statistics and Probability Letters</i> , 2015, 96, 190-195.	0.7	6

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73	Estimating the number of classes in multiple populations: A geometric analysis. Canadian Journal of Statistics, 2004, 32, 303-314.	0.9	5
74	Some variants of minimum disparity estimation. Computational Statistics and Data Analysis, 2004, 45, 741-763.	1.2	5
75	Model diagnostic tests for selecting informative correlation structure in correlated data. Biometrika, 2008, 95, 891-905.	2.4	5
76	MixtureTree: a program for constructing phylogeny. BMC Bioinformatics, 2011, 12, 111.	2.6	5
77	Covariate Information Matrix for Sufficient Dimension Reduction. Journal of the American Statistical Association, 2019, 114, 1752-1764.	3.1	5
78	A Unified Treatment of Integer Parameter Models. Journal of the American Statistical Association, 1987, 82, 758.	3.1	5
79	A universally consistent modification of maximum likelihood. Statistica Sinica, 2013, , .	0.3	4
80	A fast score test for generalized mixture models. Biometrics, 2020, 76, 811-820.	1.4	4
81	Improving mixture tree construction using better EM algorithms. Computational Statistics and Data Analysis, 2014, 74, 17-25.	1.2	3
82	Errors in Inspection: Integer Parameter Maximum Likelihood in a Finite Population. Journal of the American Statistical Association, 1985, 80, 879.	3.1	3
83	Modal simulation and visualization in finite mixture models. Canadian Journal of Statistics, 2011, 39, 421-437.	0.9	2
84	Composite Likelihood Inference in a Discrete Latent Variable Model for Two-Way "Clustering-by-Segmentation" Problems. Journal of Computational and Graphical Statistics, 2017, 26, 388-402.	1.7	2
85	Mixture Tree Construction and Its Applications. , 2011, , 135-147.		1
86	Discussion: Semiparametric mixture models. Journal of Nonparametric Statistics, 1991, 1, 51-55.	0.9	0
87	On mixtures of hazards: Nonparametric maximum likelihood in certain competing risk failure models. Journal of Nonparametric Statistics, 1992, 2, 89-103.	0.9	0