Paul D Mcnicholas

List of Publications by Year
in descending order

125 papers	4,080 citations	116194 36 h-index	169272 56 g-index
134 all docs	134 docs citations	134 times ranked	3540 citing authors

#	Article	IF	Citations
1	Trajectories of Symptom Severity in Children with Autism: Variability and Turning Points through the Transition to School. Journal of Autism and Developmental Disorders, 2022, 52, 392-401.	1.7	21
2	A partial EM algorithm for model€based clustering with highly diverse missing data patterns. Stat, 2022, 11, e437.	0.3	0
3	Mixtures of Matrix-Variate Contaminated Normal Distributions. Journal of Computational and Graphical Statistics, 2022, 31, 413-421.	0.9	13
4	Multivariate cluster weighted models using skewed distributions. Advances in Data Analysis and Classification, 2022, 16, 93-124.	0.9	7
5	Editorial: Journal of Classification Vol. 39-1. Journal of Classification, 2022, 39, 1-2.	1.2	0
6	Model-based clustering via skewed matrix-variate cluster-weighted models. Journal of Statistical Computation and Simulation, 2022, 92, 2645-2666.	0.7	7
7	A Variational Approximations-DIC Rubric for Parameter Estimation and Mixture Model Selection Within a Family Setting. Journal of Classification, 2021, 38, 89-108.	1.2	5
8	Do Different Ascertainment Techniques Identify the Same Individuals as Sarcopenic in the Canadian Longitudinal Study on Aging?. Journal of the American Geriatrics Society, 2021, 69, 164-172.	1.3	4
9	An Evolutionary Algorithm with Crossover and Mutation for Model-Based Clustering. Journal of Classification, 2021, 38, 264-279.	1.2	3
10	Editorial: Journal of Classification Vol. 38-1. Journal of Classification, 2021, 38, 1-1.	1.2	0
11	Matrix Normal Cluster-Weighted Models. Journal of Classification, 2021, 38, 556-575.	1.2	17
12	Editorial: Journal of Classification Vol. 38-2. Journal of Classification, 2021, 38, 187-187.	1.2	0
13	Re-engaging in Aging and Mobility Research in the COVID-19 Era: Early Lessons from Pivoting a Large-Scale, Interdisciplinary Study amidst a Pandemic. Canadian Journal on Aging, 2021, 40, 669-675.	0.6	3
14	Identification of five important genes to predict glioblastoma subtypes. Neuro-Oncology Advances, 2021, 3, vdab144.	0.4	2
15	Clustering discrete-valued time series. Advances in Data Analysis and Classification, 2021, 15, 209-229.	0.9	6
16	Editorial: Journal of Classification Vol. 38-3. Journal of Classification, 2021, 38, 423-424.	1.2	0
17	Flexible High-Dimensional Unsupervised Learning with Missing Data. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 610-621.	9.7	11
18	Mixtures of Hidden Truncation Hyperbolic Factor Analyzers. Journal of Classification, 2020, 37, 366-379.	1.2	6

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19	High-dimensional unsupervised classification via parsimonious contaminated mixtures. Pattern Recognition, 2020, 98, 107031.	5.1	11
20	Mixtures of skewed matrix variate bilinear factor analyzers. Advances in Data Analysis and Classification, 2020, 14, 415-434.	0.9	16
21	Editorial: Journal of Classification Vol. 37-2. Journal of Classification, 2020, 37, 275-276.	1.2	0
22	Modeling frequency and severity of claims with the zero-inflated generalized cluster-weighted models. Insurance: Mathematics and Economics, 2020, 94, 79-93.	0.7	10
23	The impact of different diagnostic criteria on the association of sarcopenia with injurious falls in the CLSA. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 1603-1613.	2.9	7
24	Editorial: Journal of Classification Vol. 37-3. Journal of Classification, 2020, 37, 549-549.	1.2	0
25	Detecting British Columbia coastal rainfall patterns by clustering Gaussian processes. Environmetrics, 2020, 31, e2631.	0.6	1
26	A Probabilistic Distance Clustering Algorithm Using Gaussian and Student-t Multivariate Density Distributions. SN Computer Science, 2020, 1, 1.	2.3	4
27	Parsimonious Mixtures of Matrix Variate Bilinear Factor Analyzers. Behaviormetrics, 2020, , 177-196.	0.5	9
28	The prevalence of sarcopenia in community-dwelling older adults, an exploration of differences between studies and within definitions: a systematic review and meta-analyses. Age and Ageing, 2019, 48, 48-56.	0.7	265
29	On Fractionally-Supervised Classification: Weight Selection and Extension to the Multivariate t-Distribution. Journal of Classification, 2019, 36, 232-265.	1.2	8
30	A multivariate Poisson-log normal mixture model for clustering transcriptome sequencing data. BMC Bioinformatics, 2019, 20, 394.	1.2	25
31	Reliability of transcranial magnetic stimulation measures of afferent inhibition. Brain Research, 2019, 1723, 146394.	1.1	21
32	A Mixture of Coalesced Generalized Hyperbolic Distributions. Journal of Classification, 2019, 36, 26-57.	1.2	27
33	Note of Clarification on â€˜Hidden truncation hyperbolic distributions, finite mixtures thereof, and their application for clusteringâ€™, by Murray, Browne, and McNicholas, J.ÂMultivariate Anal. 161 (2017) 141â€"156. Journal of Multivariate Analysis, 2019, 171, 475-476.	0.5	1
34	Mixtures of generalized hyperbolic distributions and mixtures of skew-t distributions for model-based clustering with incomplete data. Computational Statistics and Data Analysis, 2019, 130, 18-41.	0.7	15
35	Three skewed matrix variate distributions. Statistics and Probability Letters, 2019, 145, 103-109.	0.4	20
36	Asymmetric clusters and outliers: Mixtures of multivariate contaminated shifted asymmetric Laplace distributions. Computational Statistics and Data Analysis, 2019, 132, 145-166.	0.7	23

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37	Data science. Facets, 2019, 4, 131-135.	1.1	0
38	Flexible clustering of high‐dimensional data via mixtures of joint generalized hyperbolic distributions. Stat, 2018, 7, e177.	0.3	10
39	Finite mixtures of skewed matrix variate distributions. Pattern Recognition, 2018, 80, 83-93.	5.1	55
40	Standardizing interestingness measures for association rules. Statistical Analysis and Data Mining, 2018, 11, 282-295.	1.4	13
41	Predicting hospital and emergency department utilization among community-dwelling older adults: Statistical and machine learning approaches. PLoS ONE, 2018, 13, e0206662.	1.1	16
42	Special issue on "Science of big data: theory, methods and applications". Advances in Data Analysis and Classification, 2018, 12, 823-825.	0.9	0
43	Muscle Androgen Receptor Content but Not Systemic Hormones Is Associated With Resistance Training-Induced Skeletal Muscle Hypertrophy in Healthy, Young Men. Frontiers in Physiology, 2018, 9, 1373.	1.3	68
44	Subspace clustering with the multivariate-t distribution. Pattern Recognition Letters, 2018, 112, 297-302.	2.6	11
45	teigen: An <i>R</i> Package for Model-Based Clustering and Classification via the Multivariate t Distribution. Journal of Statistical Software, 2018, 83, .	1.8	41
46	ContaminatedMixt: An <i>R</i> Package for Fitting Parsimonious Mixtures of Multivariate Contaminated Normal Distributions. Journal of Statistical Software, 2018, 85, .	1.8	29
47	Model‐based clustering for spatiotemporal data on air quality monitoring. Environmetrics, 2017, 28, e2437.	0.6	15
48	Multivariate Response and Parsimony for Gaussian Cluster-Weighted Models. Journal of Classification, 2017, 34, 4-34.	1.2	56
49	A matrix variate skew‐<i>t</i> distribution. Stat, 2017, 6, 160-170.	0.3	27
50	A mixture of SDB skew- t factor analyzers. Econometrics and Statistics, 2017, 3, 160-168.	0.4	29
51	A Mixture of Variance-Gamma Factor Analyzers. Contributions To Statistics, 2017, , 369-385.	0.2	15
52	Hidden truncation hyperbolic distributions, finite mixtures thereof, and their application for clustering. Journal of Multivariate Analysis, 2017, 161, 141-156.	0.5	20
53	Robust Clustering in Regression Analysis via the Contaminated Gaussian Cluster-Weighted Model. Journal of Classification, 2017, 34, 249-293.	1.2	62
54	Two-way learning with one-way supervision for gene expression data. BMC Bioinformatics, 2017, 18, 150.	1.2	2

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55	Comparative analysis of chemical similarity methods for modular natural products with a hypothetical structure enumeration algorithm. Journal of Cheminformatics, 2017, 9, 46.	2.8	33
56	Parsimonious mixtures of multivariate contaminated normal distributions. Biometrical Journal, 2016, 58, 1506-1537.	0.6	71
57	Model-Based Clustering. Journal of Classification, 2016, 33, 331-373.	1.2	147
58	Handling missing data in consumer hedonic tests arising from direct scaling. Journal of Sensory Studies, 2016, 31, 514-523.	0.8	4
59	Clustering with the multivariate normal inverse Gaussian distribution. Computational Statistics and Data Analysis, 2016, 93, 18-30.	0.7	78
60	Hypothesis Testing for Mixture Model Selection. Journal of Statistical Computation and Simulation, 2016, 86, 2797-2818.	0.7	21
61	On nomenclature for, and the relative merits of, two formulations of skew distributions. Statistics and Probability Letters, 2016, 110, 201-206.	0.4	35
62	Clustering, classification, discriminant analysis, and dimension reduction via generalized hyperbolic mixtures. Computational Statistics and Data Analysis, 2016, 97, 133-150.	0.7	33
63	Modelling receiver operating characteristic curves using Gaussian mixtures. Computational Statistics and Data Analysis, 2016, 93, 192-208.	0.7	4
64	A mixture of generalized hyperbolic factor analyzers. Advances in Data Analysis and Classification, 2016, 10, 423-440.	0.9	33
65	Multivariate sharp quadratic bounds via $\mathbf{\Sigma}$-strong convexity and the Fenchel connection. Electronic Journal of Statistics, 2015, 9, .	0.4	1
66	Mixtures of Multivariate Power Exponential Distributions. Biometrics, 2015, 71, 1081-1089.	0.8	46
67	A mixture of generalized hyperbolic distributions. Canadian Journal of Statistics, 2015, 43, 176-198.	0.6	121
68	Unsupervised learning via mixtures of skewed distributions with hypercube contours. Pattern Recognition Letters, 2015, 58, 69-76.	2.6	20
69	Model based clustering of high-dimensional binary data. Computational Statistics and Data Analysis, 2015, 87, 84-101.	0.7	15
70	Cluster-weighted t -factor analyzers for robust model-based clustering and dimension reduction. Statistical Methods and Applications, 2015, 24, 623-649.	0.7	43
71	Mixture model averaging for clustering. Advances in Data Analysis and Classification, 2015, 9, 197-217.	0.9	15
72	Product selection for liking studies: The sensory informed design. Food Quality and Preference, 2015, 44, 36-43.	2.3	10

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73	Fractionally-Supervised Classification. Journal of Classification, 2015, 32, 359-381.	1.2	21
74	Families of Parsimonious Finite Mixtures of Regression Models. Studies in Classification, Data Analysis, and Knowledge Organization, 2015, , 73-84.	0.1	12
75	Metabolic and co-expression network-based analyses associated with nitrate response in rice. BMC Genomics, 2014, 15, 1056.	1.2	40
76	Inhibition of stearoyl-CoA desaturase-1 in differentiating 3T3-L1 preadipocytes upregulates elongase 6 and downregulates genes affecting triacylglycerol synthesis. International Journal of Obesity, 2014, 38, 1449-1456.	1.6	48
77	A mixture of common skew-t factor analysers. Stat, 2014, 3, 68-82.	0.3	38
78	Parsimonious skew mixture models for model-based clustering and classification. Computational Statistics and Data Analysis, 2014, 71, 196-210.	0.7	76
79	Estimating common principal components in high dimensions. Advances in Data Analysis and Classification, 2014, 8, 217-226.	0.9	52
80	Orthogonal Stiefel manifold optimization for eigen-decomposed covariance parameter estimation in mixture models. Statistics and Computing, 2014, 24, 203-210.	0.8	25
81	A LASSO-penalized BIC for mixture model selection. Advances in Data Analysis and Classification, 2014, 8, 45-61.	0.9	40
82	Variational Bayes approximations for clustering via mixtures of normal inverse Gaussian distributions. Advances in Data Analysis and Classification, 2014, 8, 167-193.	0.9	33
83	Variable Selection for Clustering and Classification. Journal of Classification, 2014, 31, 136-153.	1.2	47
84	Mixtures of Shifted AsymmetricLaplace Distributions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1149-1157.	9.7	118
85	Nitrogen limitation and high density responses in rice suggest a role for ethylene under high density stress. BMC Genomics, 2014, 15, 681.	1.2	14
86	Capturing patterns via parsimonious mixture models. Statistics and Probability Letters, 2014, 88, 80-87.	0.4	50
87	Mixtures of skew-t factor analyzers. Computational Statistics and Data Analysis, 2014, 77, 326-335.	0.7	68
88	A gradient method for the monotone fused least absolute shrinkage and selection operator. Optimization Methods and Software, 2014, 29, 463-483.	1.6	0
89	Clustering and classification via cluster-weighted factor analyzers. Advances in Data Analysis and Classification, 2013, 7, 5-40.	0.9	48
90	Genome-wide expression profiling of maize in response to individual and combined water and nitrogen stresses. BMC Genomics, 2013, 14, 3.	1.2	157

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91	Promzea: a pipeline for discovery of co-regulatory motifs in maize and other plant species and its application to the anthocyanin and phlobaphene biosynthetic pathways and the Maize Development Atlas. BMC Plant Biology, 2013, 13, 42.	1.6	19
92	Dimension reduction for model-based clustering via mixtures of multivariate t -distributions. Advances in Data Analysis and Classification, 2013, 7, 321-338.	0.9	14
93	Discussion of 'Model-based clustering and classification with non-normal mixture distributions' by Lee and McLachlan. Statistical Methods and Applications, 2013, 22, 467-472.	0.7	0
94	Dimension reduction for model-based clustering via mixtures of shifted asymmetric Laplace distributions. Statistics and Probability Letters, 2013, 83, 2088-2093.	0.4	19
95	Using evolutionary algorithms for model-based clustering. Pattern Recognition Letters, 2013, 34, 987-992.	2.6	17
96	On Clustering and Classification Via Mixtures of Multivariate t-Distributions. Studies in Classification, Data Analysis, and Knowledge Organization, 2013, , 233-240.	0.1	3
97	Model-Based Classification via Mixtures of Multivariate t-Factor Analyzers. Communications in Statistics Part B: Simulation and Computation, 2012, 41, 510-523.	0.6	41
98	The LASSO and Sparse Least Squares Regression Methods for SNP Selection in Predicting Quantitative Traits. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 629-636.	1.9	20
99	Analytic calculations for the EM algorithm for multivariate skew- mixture models. Statistics and Probability Letters, 2012, 82, 1169-1174.	0.4	74
100	Model-based clustering, classification, and discriminant analysis of data with mixed type. Journal of Statistical Planning and Inference, 2012, 142, 2976-2984.	0.4	33
101	Vaccenic acid in serum triglycerides is associated with markers of insulin resistance in men. Applied Physiology, Nutrition and Metabolism, 2012, 37, 1003-1007.	0.9	11
102	Caloric Restriction Induces Changes in Insulin and Body Weight Measurements That Are Inversely Associated with Subsequent Weight Regain. PLoS ONE, 2012, 7, e42858.	1.1	28
103	Model-based clustering, classification, and discriminant analysis via mixtures of multivariate t-distributions. Statistics and Computing, 2012, 22, 1021-1029.	0.8	118
104	Clustering gene expression time course data using mixtures of multivariate t-distributions. Journal of Statistical Planning and Inference, 2012, 142, 1114-1127.	0.4	39
105	Model-Based Learning Using a Mixture of Mixtures of Gaussian and Uniform Distributions. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2012, 34, 814-817.	9.7	54
106	Bayesian and likelihood inference for cure rates based on defective inverse Gaussian regression models. Journal of Applied Statistics, 2011, 38, 127-144.	0.6	25
107	A First Passage Time Model for Long-Term Survivors with Competing Risks. International Journal of Biostatistics, 2011, 7, 1-15.	0.4	3
108	Extending mixtures of multivariate t-factor analyzers. Statistics and Computing, 2011, 21, 361-373.	0.8	102

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109	Model-based classification via mixtures of multivariate -distributions. Computational Statistics and Data Analysis, 2011, 55, 520-529.	0.7	69
110	Mixtures of modified t-factor analyzers for model-based clustering, classification, and discriminant analysis. Journal of Statistical Planning and Inference, 2011, 141, 1479-1486.	0.4	55
111	Translation tables: A genetic code in a evolutionary algorithm. , 2011, , .		0
112	Clustering of fasting glycemic biomarkers is related to levels of cardiovascular disease risk in adults. FASEB Journal, 2011, 25, 971.8.	0.2	0
113	Modelâ€based clustering of longitudinal data. Canadian Journal of Statistics, 2010, 38, 153-168.	0.6	39
114	Model-based classification using latent Gaussian mixture models. Journal of Statistical Planning and Inference, 2010, 140, 1175-1181.	0.4	65
115	Serial and parallel implementations of model-based clustering via parsimonious Gaussian mixture models. Computational Statistics and Data Analysis, 2010, 54, 711-723.	0.7	94
116	A Pseudo-EM Algorithm for Clustering Incomplete Longitudinal Data. International Journal of Biostatistics, 2010, 6, Article 8.	0.4	3
117	Model-based clustering of microarray expression data via latent Gaussian mixture models. Bioinformatics, 2010, 26, 2705-2712.	1.8	168
118	Review and implementation of cure models based on first hitting times for Wiener processes. Lifetime Data Analysis, 2009, 15, 147-176.	0.4	56
119	Changes on Enological Parameters of White Wine Packaged in Bagâ€inâ€Box during Secondary Shelf Life. Journal of Food Science, 2009, 74, C608-18.	1.5	28
120	Association Rules. , 2009, , 1-10.		4
121	Standardising the lift of an association rule. Computational Statistics and Data Analysis, 2008, 52, 4712-4721.	0.7	65
122	Narrowband UVB and PUVA in the Treatment of Mycosis Fungoides: A Retrospective Study. Acta Dermato-Venereologica, 2007, 87, 413-417.	0.6	48
123	Modeling Frequency and Severity of Claims with the Zero-Inflated Generalized Cluster-Weighted Models. SSRN Electronic Journal, 0, , .	0.4	0
124	Mixture Model-Based Classification. , 0, , .		97
125	Mixture and Latent Class Models in Longitudinal and Other Settings. , 0, , 357-370.		0