

# Douglas Steinley

## List of Publications by Year in descending order

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84  
papers

3,450  
citations

218677

26  
h-index

149698

56  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3292  
citing authors

#	ARTICLE	IF	CITATIONS
1	K-means clustering: A half-century synthesis. <i>British Journal of Mathematical and Statistical Psychology</i> , 2006, 59, 1-34.	1.4	676
2	Properties of the Hubert-Arable Adjusted Rand Index.. <i>Psychological Methods</i> , 2004, 9, 386-396.	3.5	456
3	Initializing K-means Batch Clustering: A Critical Evaluation of Several Techniques. <i>Journal of Classification</i> , 2007, 24, 99-121.	2.2	236
4	Local Optima in K-Means Clustering: What You Don't Know May Hurt You.. <i>Psychological Methods</i> , 2003, 8, 294-304.	3.5	230
5	Alcohol use trajectories and the ubiquitous cat's cradle: Cause for concern?. <i>Journal of Abnormal Psychology</i> , 2011, 120, 322-335.	1.9	142
6	Evaluating mixture modeling for clustering: Recommendations and cautions.. <i>Psychological Methods</i> , 2011, 16, 63-79.	3.5	121
7	Selection of Variables in Cluster Analysis: An Empirical Comparison of Eight Procedures. <i>Psychometrika</i> , 2008, 73, 125-144.	2.1	106
8	Choosing the number of clusters in $\hat{k}$ -means clustering.. <i>Psychological Methods</i> , 2011, 16, 285-297.	3.5	73
9	Profiling local optima in K-means clustering: Developing a diagnostic technique.. <i>Psychological Methods</i> , 2006, 11, 178-192.	3.5	66
10	A New Variable Weighting and Selection Procedure for $k$ -means Cluster Analysis. <i>Multivariate Behavioral Research</i> , 2008, 43, 77-108.	3.1	66
11	A comparison of latent class, K-means, and K-median methods for clustering dichotomous data.. <i>Psychological Methods</i> , 2017, 22, 563-580.	3.5	57
12	The variance of the adjusted Rand index.. <i>Psychological Methods</i> , 2016, 21, 261-272.	3.5	53
13	A Comparison of Heuristic Procedures for Minimum Within-Cluster Sums of Squares Partitioning. <i>Psychometrika</i> , 2007, 72, 583-600.	2.1	50
14	A note on using the adjusted Rand index for link prediction in networks. <i>Social Networks</i> , 2015, 42, 72-79.	2.1	50
15	Cluster analysis in empirical OM research: survey and recommendations. <i>International Journal of Operations and Production Management</i> , 2017, 37, 300-320.	5.9	50
16	The p-median model as a tool for clustering psychological data.. <i>Psychological Methods</i> , 2010, 15, 87-95.	3.5	49
17	OCLUS: An Analytic Method for Generating Clusters with Known Overlap. <i>Journal of Classification</i> , 2005, 22, 221-250.	2.2	47
18	A method for making inferences in network analysis: Comment on Forbes, Wright, Markon, and Krueger (2017).. <i>Journal of Abnormal Psychology</i> , 2017, 126, 1000-1010.	1.9	43

#	ARTICLE	IF	CITATIONS
19	Cautionary Remarks on the Use of Clusterwise Regression. <i>Multivariate Behavioral Research</i> , 2008, 43, 29-49.	3.1	42
20	Examining the effect of initialization strategies on the performance of Gaussian mixture modeling. <i>Behavior Research Methods</i> , 2017, 49, 282-293.	4.0	42
21	Standardizing Variables in K-means Clustering. , 2004, , 53-60.		37
22	A variable neighborhood search method for generalized blockmodeling of two-mode binary matrices. <i>Journal of Mathematical Psychology</i> , 2007, 51, 325-338.	1.8	34
23	Emergent clustering methods for empirical OM research. <i>Journal of Operations Management</i> , 2012, 30, 454-466.	5.2	34
24	Detecting Clusters/Communities in Social Networks. <i>Multivariate Behavioral Research</i> , 2018, 53, 57-73.	3.1	34
25	Examining Factor Score Distributions to Determine the Nature of Latent Spaces. <i>Multivariate Behavioral Research</i> , 2007, 42, 133-156.	3.1	32
26	Stability analysis in K-means clustering. <i>British Journal of Mathematical and Statistical Psychology</i> , 2008, 61, 255-273.	1.4	32
27	Evidence of Inflated Prediction Performance: A Commentary on Machine Learning and Suicide Research. <i>Clinical Psychological Science</i> , 2021, 9, 129-134.	4.0	32
28	Two Algorithms for Relaxed Structural Balance Partitioning: Linking Theory, Models, and Data to Understand Social Network Phenomena. <i>Sociological Methods and Research</i> , 2011, 40, 57-87.	6.8	27
29	Order-Constrained Solutions in K-Means Clustering: Even Better Than Being Globally Optimal. <i>Psychometrika</i> , 2008, 73, 647-664.	2.1	26
30	A Tabu-Search Heuristic for Deterministic Two-Mode Blockmodeling of Binary Network Matrices. <i>Psychometrika</i> , 2011, 76, 612-633.	2.1	26
31	A comparison of 71 binary similarity coefficients: The effect of base rates. <i>PLoS ONE</i> , 2021, 16, e0247751.	2.5	24
32	Integer programs for one- and two-mode blockmodeling based on prespecified image matrices for structural and regular equivalence. <i>Journal of Mathematical Psychology</i> , 2009, 53, 577-585.	1.8	23
33	Multiobjective Blockmodeling for Social Network Analysis. <i>Psychometrika</i> , 2013, 78, 498-525.	2.1	22
34	Motivational typologies of drinkers: do enhancement and coping drinkers form two distinct groups?. <i>Addiction</i> , 2013, 108, 497-503.	3.3	21
35	Inducing a blockmodel structure of two-mode binary data using seriation procedures. <i>Journal of Mathematical Psychology</i> , 2006, 50, 468-477.	1.8	20
36	K-balance partitioning: An exact method with applications to generalized structural balance and other psychological contexts.. <i>Psychological Methods</i> , 2010, 15, 145-157.	3.5	20

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37	K-means clustering and mixture model clustering: Reply to McLachlan (2011) and Vermunt (2011).. <i>Psychological Methods</i> , 2011, 16, 89-92.	3.5	20
38	On the Added Value of Bootstrap Analysis for K-Means Clustering. <i>Journal of Classification</i> , 2015, 32, 268-284.	2.2	20
39	It's the algorithm! Why differential rates of chronicity and comorbidity are not evidence for the validity of the abuse–dependence distinction.. <i>Journal of Abnormal Psychology</i> , 2010, 119, 650-661.	1.9	19
40	Exact and approximate algorithms for variable selection in linear discriminant analysis. <i>Computational Statistics and Data Analysis</i> , 2011, 55, 123-131.	1.2	16
41	On Ising models and algorithms for the construction of symptom networks in psychopathological research.. <i>Psychological Methods</i> , 2019, 24, 735-753.	3.5	16
42	An Exact Algorithm for Hierarchically Well-Formulated Subsets in Second-Order Polynomial Regression. <i>Technometrics</i> , 2009, 51, 306-315.	1.9	15
43	Variable Neighborhood Search Heuristics for Selecting a Subset of Variables in Principal Component Analysis. <i>Psychometrika</i> , 2009, 74, 705-726.	2.1	14
44	A variable neighborhood search method for a two-mode blockmodeling problem in social network analysis. <i>Network Science</i> , 2013, 1, 191-212.	1.0	14
45	An Exact Method for Partitioning Dichotomous Items Within the Framework of the Monotone Homogeneity Model. <i>Psychometrika</i> , 2015, 80, 949-967.	2.1	13
46	Cross validation issues in multiobjective clustering. <i>British Journal of Mathematical and Statistical Psychology</i> , 2009, 62, 349-368.	1.4	12
47	Local Optima in Mixture Modeling. <i>Multivariate Behavioral Research</i> , 2016, 51, 466-481.	3.1	12
48	Determining optimal diagnostic criteria through chronicity and comorbidity. <i>In Silico Pharmacology</i> , 2016, 4, 1.	3.3	12
49	A Note on Maximizing the Agreement Between Partitions: A Stepwise Optimal Algorithm and Some Properties. <i>Journal of Classification</i> , 2015, 32, 114-126.	2.2	11
50	Searching for Mr. Hyde: A five-factor approach to characterizing archetypes of drunks. <i>Addiction Research and Theory</i> , 2016, 24, 1-8.	1.9	11
51	Validating Clusters with the Lower Bound for Sum-of-Squares Error. <i>Psychometrika</i> , 2007, 72, 93-106.	2.1	10
52	A Binary Integer Program to Maximize the Agreement Between Partitions. <i>Journal of Classification</i> , 2008, 25, 185-193.	2.2	10
53	Principal Cluster Axes: A Projection Pursuit Index for the Preservation of Cluster Structures in the Presence of Data Reduction. <i>Multivariate Behavioral Research</i> , 2012, 47, 463-492.	3.1	10
54	A note on the expected value of the Rand index. <i>British Journal of Mathematical and Statistical Psychology</i> , 2018, 71, 287-299.	1.4	9

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55	Affinity propagation: An exemplar-based tool for clustering in psychological research. <i>British Journal of Mathematical and Statistical Psychology</i> , 2019, 72, 155-182.	1.4	9
56	Clusterwise $p^*$ models for social network analysis. <i>Statistical Analysis and Data Mining</i> , 2011, 4, 487-496.	2.8	8
57	Model selection for minimum-diameter partitioning. <i>British Journal of Mathematical and Statistical Psychology</i> , 2014, 67, 471-495.	1.4	8
58	Toward more efficient diagnostic criteria sets and rules: The use of optimization approaches in addiction science. <i>Addictive Behaviors</i> , 2019, 94, 57-64.	3.0	7
59	Machine Learning to Classify Suicidal Thoughts and Behaviors: Implementation Within the Common Data Elements Used by the Military Suicide Research Consortium. <i>Clinical Psychological Science</i> , 2021, 9, 467-481.	4.0	7
60	Biclustering methods for one-mode asymmetric matrices. <i>Behavior Research Methods</i> , 2016, 48, 487-502.	4.0	6
61	Combining diversity and dispersion criteria for anticlustering: A bicriterion approach. <i>British Journal of Mathematical and Statistical Psychology</i> , 2020, 73, 375-396.	1.4	6
62	Affinity Propagation and Uncapacitated Facility Location Problems. <i>Journal of Classification</i> , 2015, 32, 443-480.	2.2	5
63	Deterministic blockmodelling of signed and two-mode networks: A tutorial with software and psychological examples. <i>British Journal of Mathematical and Statistical Psychology</i> , 2021, 74, 34-63.	1.4	5
64	A comparison of spectral clustering and the walktrap algorithm for community detection in network psychometrics.. <i>Psychological Methods</i> , 0, , .	3.5	5
65	Gaussian model-based partitioning using iterated local search. <i>British Journal of Mathematical and Statistical Psychology</i> , 2017, 70, 1-24.	1.4	4
66	A simulated annealing heuristic for maximum correlation core/periphery partitioning of binary networks. <i>PLoS ONE</i> , 2017, 12, e0170448.	2.5	4
67	Modeling Between-Subject Variability in Decision Strategies via Statistical Clustering: A $p$ -Median Approach. <i>Journal of Behavioral Decision Making</i> , 2018, 31, 250-264.	1.7	4
68	$K$ -medoids inverse regression. <i>Communications in Statistics - Theory and Methods</i> , 2019, 48, 4999-5011.	1.0	4
69	Ising formulations of some graph-theoretic problems in psychological research: Models and methods. <i>Journal of Mathematical Psychology</i> , 2021, 102, 102536.	1.8	4
70	Deterministic Blockmodeling of Two-Mode Binary Networks Using a Two-Mode $K$ -Median Heuristic. <i>Journal of Social Structure</i> , 2018, 19, 1-22.	1.3	3
71	Deriving alternative criteria sets for alcohol use disorders using statistical optimization: Results from the National Survey on Drug Use and Health.. <i>Experimental and Clinical Psychopharmacology</i> , 2019, 27, 283-296.	1.8	3
72	A note on the estimation of the Pareto efficient set for multiobjective matrix permutation problems. <i>British Journal of Mathematical and Statistical Psychology</i> , 2012, 65, 145-162.	1.4	2

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73	Psychometrics: Combinatorial Data Analysis. , 2015, , 431-435.		2
74	Using Complete Enumeration to Derive "One-Size-Fits-All" Versus "Subgroup-Specific" Diagnostic Rules for Substance Use Disorder. Assessment, 2020, 27, 1075-1088.	3.1	2
75	Disentangling relationships in symptom networks using matrix permutation methods. Psychometrika, 2021, , 1.	2.1	2
76	A modified approach to fitting relative importance networks.. Psychological Methods, 2024, 29, 1-20.	3.5	2
77	Introduction: special issue of statistical analysis and data mining on networks. Statistical Analysis and Data Mining, 2011, 4, 459-460.	2.8	1
78	Modeling Heterogeneous Peer Assortment Effects Using Finite Mixture Exponential Random Graph Models. Psychometrika, 2020, 85, 8-34.	2.1	1
79	Combinatorial Optimization of Clustering Decisions: An Approach to Refine Psychiatric Diagnoses. Multivariate Behavioral Research, 2021, 56, 57-69.	3.1	1
80	Recent Advances in (Graphical) Network Models. Multivariate Behavioral Research, 2021, 56, 171-174.	3.1	1
81	On Fixed Marginal Distributions and Psychometric Network Models. Multivariate Behavioral Research, 2021, 56, 329-335.	3.1	1
82	An evaluation of exact methods for the multiple subset maximum cardinality selection problem. British Journal of Mathematical and Statistical Psychology, 2016, 69, 194-213.	1.4	0
83	Using an Iterative Reallocation Partitioning Algorithm to Verify Test Multidimensionality. Journal of Classification, 2019, 36, 397-413.	2.2	0
84	A variable neighborhood search heuristic for nonnegative matrix factorization with application to microarray data. Optimization Letters, 2022, 16, 153-174.	1.6	0